SENSORS FOR RESEARCH & DEVELOPMENT **APPLICATIONS**

Including ENDEVCO sensors, electronics, and cables



WHO IS PCB®?



DELIVERING TOTAL CUSTOMER SATISFACTION

to engineers and maintenance professionals worldwide.

In 1967, PCB Piezotronics revolutionized the sensor industry with our integrated circuit piezoelectric (ICP®) technology, setting the tempo for innovation in sensor design for years to come. PCB's commitment to excellence reached new heights with the acquisition of **Endevco** in 2019, significantly enhancing our ability to meet evolving industry trends in the many markets we serve. As our product portfolio continues to grow, our unwavering dedication remains—empowering you to make dynamic measurements in more reliable, simple, and cost-effective ways.

1500+ employees worldwide
21 domestic and international sales offices
105 distributors in 130 countries
Product mix of over 28,000 models
AS9100:2016 QMS Certified by DQS, Inc.
ISO 9001:2015 QMS Certified by DQS, Inc.
ISO 17025 Accredited

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MAJOR MARKETS SERVED

AEROSPACE







ENERGY



AEROSPACE & DEFENSE



PCB built sensors for extreme aerospace and defense conditions, measuring up to 200,000 G's and functioning from -452 to 1400 °F. Our portfolio showcases unmatched reliability in the face of extreme temperatures, vacuum, shock, vibration, and acoustic stress. Supporting both commercial and military applications, we offer custom options to meet environmental standards and requirements, including program design requirements to RTCA-DO-160 and MIL-STD-810.

Popular Aerospace & Defense Applications:

Armored vehicle testing

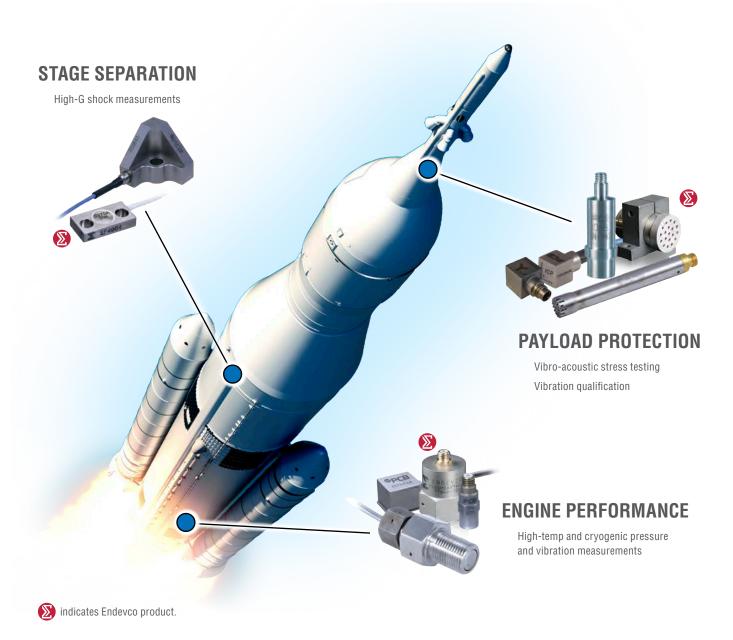
Maritime testing

Ship shock (MIL-S-901) testing

Explosive and gun pressure measurements

Commercial and military aircraft

Rockets, payloads, and satellites



PCB SENSORS IN ACTION - Space Payload Qualification

CHALLENGE

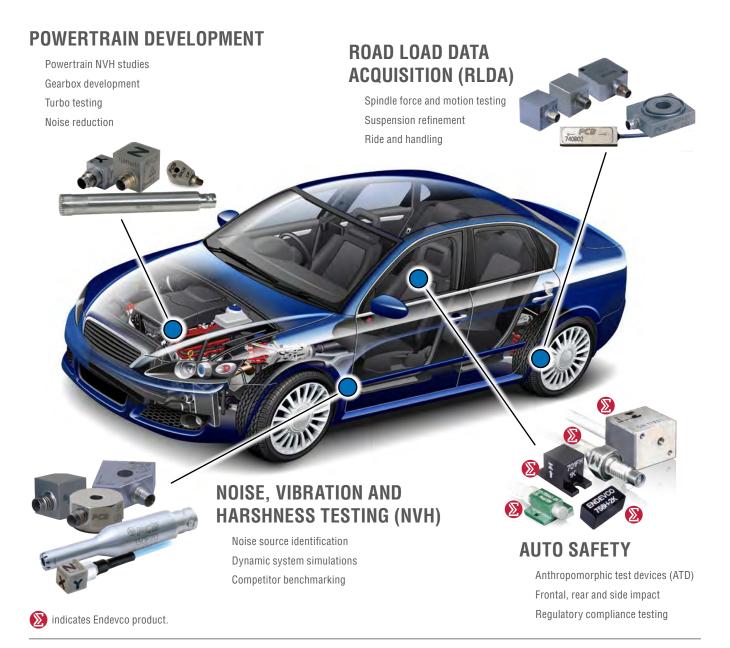
Acoustic Research Systems (ARS), a solution provider for direct field acoustic noise testing (DFAN) systems, requires precise control instrumentation for their Neutron™ acoustic drivers. DFAN tests subject space payloads to high-intensity sound pressures exceeding 140 dB, closely simulating the launch environment to ensure all systems survive the journey to space.

SOLUTION

PCB's pre-polarized ICP® 378A12 microphone was the ideal choice due to its 182 dB dynamic range, wide frequency response, and onboard TEDS for easy setup. PCB application engineers assist ARS in constructing robust measurement chains tailored to each unique test requirement, including microphones, cables, in-field calibrators, mounting accessories, and accelerometers.



AUTOMOTIVE & RAIL



With the strategic acquisition of the Endevco crash test sensor line, PCB has solidified its commitment to helping automotive and rail engineers meet evolving demands for connectivity, electrification, safety, and performance. Our journey into rail sensor design began in 1998, driven by a customer request for a high-speed train accelerometer. Today, PCB sensors support high-speed rail systems worldwide with on-board monitoring, reduced maintenance costs, and enhanced passenger comfort and safety.

Popular Automotive Applications:

ICE, hybrid, Durability
and electric vehicles Auto safety
HVOR Ride and handling



PCB SENSORS IN ACTION - Detection of Track Deformation

SOLUTION

CHALLENGESNCF Réseau – entrusted with the management, maintenance, and advancement of the French national rail network – required resilient sensors to facilitate real-time monitoring of rail track deformation while ensuring uninterrupted train schedules.

PCB Series 3741F MEMS accelerometers were prized for their reliability and shock resistance. In early 2021, the first sensor-fitted trains rolled out, enabling constant monitoring. Now, maintenance teams swiftly address emerging issues, ensuring smooth and safe railways.

INFRASTRUCTURE AND SEISMIC MONITORING



Engineers and scientists across the globe rely on PCB sensors for research, development, and product testing, ensuring optimal designs and faster time-to-market. Our seismic sensor technology plays a vital role in enhancing infrastructure safety by monitoring low-frequency vibrations in bridges, roads, and buildings, further highlighting the diverse research and development applications that PCB products support.

RESEARCH & DEVELOPMENT

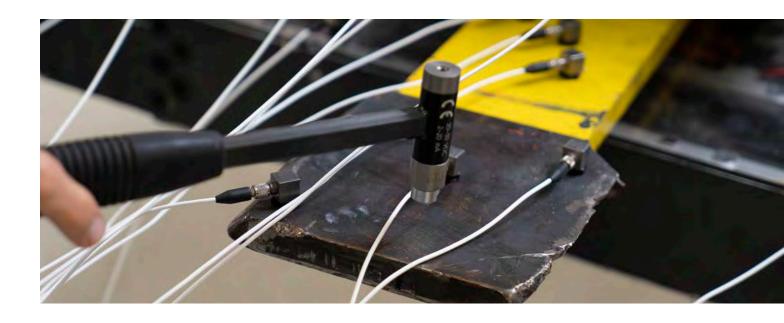


Popular Research & Development Applications:

Test laboratories Infrastructure testing and monitoring

Consumer products Semiconductor manufacturing

Acoustic testing



The acronym ICP® (also known as IEPE) refers to a type of piezoelectric (PE) accelerometer with internal electronics (IE) that allow it to convert charge to a low-impedance voltage output. Its temperature response is somewhat limited due to its onboard electronics. This type of accelerometer is primarily specified for applications in which environmental conditions permit its use, including HALT/HASS/ESS testing, industrial vibration monitoring, and general purpose vibration and shock testing.







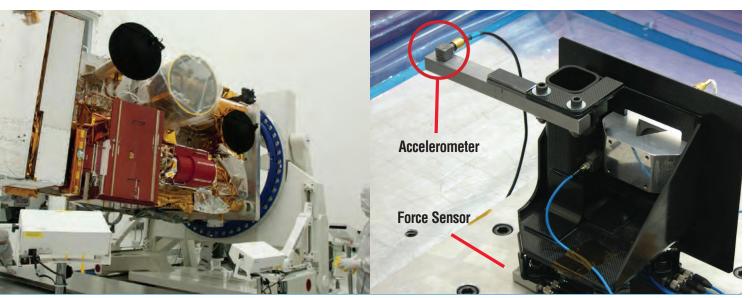






SINGLE AXIS ACCELEROMETERS (CERAMIC) – TEARDROP STYLE									
Model Number	352A21	352C22	352C23	352A24	TLD352A56 TEDS	352A59 TEDS			
Sensitivity	10 mV/g	10 mV/g	5 mV/g	10 mV/g	100 mV/g	10 mV/g			
Measurement Range	± 500 g pk	± 500 g pk	± 1000 g pk	± 500 g pk	± 50 g pk	± 500 g pk			
Frequency Range (±5%)	1 to 10	,000 Hz	2 to 10,000 Hz	1 to 8,000 Hz	0.5 to 10,000 Hz	1 to 10,000 Hz			
Weight	0.02 oz [0.6 gm]	0.017 oz [0.5 gm]	0.007 oz [0.2 gm]	0.03 oz [0.8 gm]	0.06 oz [1.8 gm]	0.03 oz [0.9 gm]			
Optional Models - Less Cable	352A21/NC	352C22/NC	352C23/NC	352A24/NC		352A59/NC			
Typical Applications	G	General vibration testing of small components or within devices where mass is a concern							

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Model Number	352A71	352A73	352A74	352A91	352A92		
Sensitivity	10 mV/g	5 mV/g	100 mV/g	1.0 mV/g	0.25 mV/g		
Measurement Range	± 500 g pk	± 1,000 g pk	± 50 g pk	± 5,000 g pk	± 20,000 g pk		
Frequency Range (±5%)	0.5 to 10,000 Hz	2 to 10,000 Hz	1 to 8,000 Hz	1.2 to 1	0,000 Hz		
Weight	0.023 oz [0.64 gm]	0.01 oz [0.3 gm]	0.04 oz [1.22 gm]	0.006 oz [0.17 gm]	0.0055 oz [0.16 gm]		
Typical Applications	Genera	General vibration testing of small components or within devices where mass is a concern					



PCB® Model 356M208 accelerometer and force sensors used during vibration testing of bracket assembly at Utah State Space Dynamics Lab.









SINGLE AXIS ACCELEROMETERS FOR MODAL TESTING									
Model Number	333A22	333B30	333B32	333B40 333B45		333B50			
Sensitivity	10 mV/g	100	mV/g	500	1,000 mV/g				
Measurement Range	± 500 g pk	± 50 g pk		± 10 g pk		± 5 g pk			
Frequency Range (±5%)	1 to 6,000 Hz	0.5 to 3	,000 Hz	0.5 to 3,000 Hz					
Broadband Resolution	0.0005 g rms	0.0001	5 g rms						
Optional Models - TEDS	TEDS Included	TLD333B30	TLD333B32	TLD333B40	TLD333B45	TLD333B50			
Typical Applications		Modal analysis, testing where high resolution and low noise is critical							









SINGLE AXIS SHOCK ACCELERO	SINGLE AXIS SHOCK ACCELEROMETERS WITH MECHANICAL ISOLATION										
Model Number	350B01	350D02	350C03	350C04	350C23	350C24					
Sensitivity	0.05 mV/g	0.10 mV/g	0.5 mV/g	1.0 mV/g	0.5 mV/g	1.0 mV/g					
Measurement Range	± 100,000 g pk	± 50,000 g pk	± 10,000 g pk	± 5,000 g pk	± 10,000 g pk	± 5,000 g pk					
Frequency Range (± 1dB)	4 to 10	,000 Hz	0.4 to 10,000 Hz								
Overload Shock	± 150	,000 g		± 50,	000 g						
Optional Models - Metric Mounting	M350B01	M350D02	M350C03	M350C04	M350C23	M350C24					
Typical Applications	High impulse shock and blast testing with high survivability; integral mechanical and/or electrical filters limit saturation of signal.										

The single and triaxial ICP® accelerometers are designed with a low temperature coefficient, wide operating temperature range, and good broadband measurement resolution, making them ideal for any vibration measurement requiring tight control of amplitude sensitivity over a wide thermal gradient. To alleviate the effects of high frequency overloads caused by metal-to-metal inputs, a low pass filter has been incorporated in some models, ensuring accurate data in the frequency range of interest.













SINGLE AXIS ACCELEROMETERS – ESS / HALT / HASS								
Model Number	320C03	320C04	320C15	320C20	320C33	320C52	320C53	
Sensitivity	10 mV/g	10 mV/g	10 mV/g	10 mV/g	100 mV/g	10 mV/g	1 mV/g	
Measurement Range	± 500 g pk	± 500 g pk	± 500 g pk	± 500 g pk	± 50 g pk	± 500 g pk	± 5,000 g pk	
Frequency Range (±5%)	1 to 6,	000 Hz	1 to 10,000 Hz	2 to 5,000 Hz	1 to 4,000 Hz	1 to 10,000 Hz	1 to 5,000 Hz	
Operating Temperature Range			-100 to	+325 °F (-73 to +	163 °C)			
Sensing Element			Quartz			UHT-	-12™	
Optional Models - J Isolation / M Metric	J320C03	J320C04	M320C15	M320C20		M320C52	M320C53	
Typical Applications	Accelerated life and durability testing at elevated temperatures							









339 SERIES OF ICP® ACCELEROMETERS WITH EXCELLENT THERMAL STABILITY								
Model Number	339A30	339A30 339C31 339B32 TLD339A34 TLD339A36						
Sensitivity	500 mV/g	500 mV/g	500 mV/g	100 mV/g	500 mV/g	100 mV/g		
Measurement Range	± 10 g pk	± 10 g pk	± 10 g pk	± 50 g pk	± 10 g pk	± 50 g pk		
Frequency Range (±5%)	2 to 8,	000 Hz	000 Hz	0.3 to 4,000 Hz				
Operating Temperature Range			-65 to +250 °F (-54 to +121 °C)			-65 to +356 °F (-54 to +180 °C		
Optional Models - TEDS				Included	Included	Included		
Optional Models - Less Cable	339A30/NC	339C31/NC	339B32/NC			TLD339A37/NC		
Typical Applications	Testing under various temperatures; vehicle, turbo, and exhaust durability testing.							





TRIAXIAL SHOCK ACCELEROMETERS WITH MECHANICAL ISOLATION									
Model Number	350B41	350B42	350B43	350B43 350B44					
Sensitivity	0.05 mV/g 0.10 mV/g		0.5 mV/g	0.5 mV/g 1.0 mV/g					
Measurement Range	± 100,000 g pk	± 50,000 g pk	± 10,000 g pk	± 5,000 g pk	± 10,000 g pk				
Frequency Range (± 1dB)	4 to 10	,000 Hz	0.4 to 10	3 to 10,000 Hz					
Overload Shock	± 150	,000 g	± 50,	± 25,000 g					
Optional Models - Metric Mounting		Incl	uded						
Optional Models - Less Extension Cable	350B41/NC	350B42/NC	350B43/NC	350B44/NC	350B50/NC				
Typical Applications	High impulse shock and blast testing with high survivability; integral mechanical and/or electrical filters limit saturation of signal.								

^{*}Does not have mechanical isolation















SINGLE AXIS ACCELEROMETERS – CRYOGENIC								
Model Number	351B03	351B04	351B41	351B42	351B11	351B14	351A15	
Sensitivity	10 mV/g	10 mV/g	100 mV/g	100 mV/g	5 mV/g	5 mV/g	5.5 mV/g	
Measurement Range	± 150) g pk	± 15	g pk	± 300 g pk		± 1000 g pk	
Frequency Range (±5%)	1 to 6,	000 Hz	1 to 2,000 Hz		1 to 10,000 Hz		1.25 to 6,500 Hz	
Operating Temperature Range			-320 to	+250 °F (-196 to	+121 °C)			
Optional Models - Metric Mounting		Incl	uded		M351B11	M351B14	Included	
Optional Models - Ground Isolation	J351B03	J351B04	J351B41					
Typical Applications	Validation testing of cryogenic vessels, typically for rockets and satellites							















SINGLE AXIS ACCELEROMETERS (CERAMIC) – GENERAL PURPOSE								
Model Number	352B01	352C03	352C04	352B10	352C33	352C34	352C41	
Sensitivity	1 mV/g		10 mV/g		100	mV/g	10 mV/g	
Measurement Range	± 5000 g pk		± 500 g pk		± 50	g pk	± 500 g pk	
Frequency Range (±5%)	2 to 10,000 Hz	0.5 to 1	0,000 Hz	2 to 10,000 Hz	0.5 to 10,000 Hz		1 to 9,000 Hz	
Weight	0.03 oz [0.7 gm]	0.2 oz [5.8 gm]	0.03 oz [0.7 gm]	0.2 oz [5.8 gm]		0.1 oz [2.8 gm]	
Optional Models - Metric Mounting		Included	Included		Included	Included		
Optional Models - TEDS		TLD352C03	TLD352C04		TLD352C33	TLD352C34		
Optional Models - Ground Isolation		J352C03	J352C04		J352C33	J352C34		
Typical Applications		General vibration testing of small components or within devices where mass is a concern						













Model Number	352C42	352A60	352C65	352C66	352C67	352C68		
Sensitivity	100 mV/g	10 mV/g	100 mV/g					
Measurement Range	± 50 g pk	± 500 g pk	± 50 g pk					
Frequency Range (±5%)	1 to 9,000 Hz	5 to 60,000 Hz (±3 dB)	0.5 to 10,000 Hz					
Weight	0.1 oz [2.8 gm]	0.21 oz [6.0 gm]		0.07 oz	[2.0 gm]			
Optional Models - Metric Mounting		M352A60	M352C65	M352C66	M352C67	M352C68		
Optional Models - Ground Isolation			J352C65	J352C66	J352C67	J352C68		
Typical Applications	General vibration testing of small components or within devices where mass is a concern							













SINGLE AXIS ACCELEROME	ETERS (QUARTZ) –	GENERAL PURPO	SE					
Model Number	353B03	353B04	353B11 353B14 353B15 353B					
Sensitivity	10 r	mV/g	5 mV/g 10 mV/g					
Measurement Range	± 500	g pk	± 1,000 g pk ± 500 g pk					
Frequency Range (±5%)	1 to 7,	000 Hz	1 to 10,000 Hz					
Weight	0.38 oz [10.5 gm]	0.07 oz [2.0 gm]	0.06 oz [1.8 gm]	0.07 oz [2.0 gm]	0.05 oz [1.5 gm]		
Optional Models - Metric Mounting	Included	Included	M353B11	M353B14	M353B15	M353B16		
Optional Models - Ground Isolation	J353B03	J353B04		J353B14	J353B15	J353B16		
Typical Applications	Low-noise applica	Low-noise application where overload or thermal shock may be an issue; maintains high stability through thermal cycling.						













Model Number	353B17	353B18	353B31	353B32	353B33	353B34						
Sensitivity	10 r	mV/g	50 n	nV/g	100 ו	100 mV/g						
Measurement Range	± 500 g pk		± 100 g pk		00 g pk ± 100 g pk ± 5		± 100 g pk		00 g pk ± 100 g pk		± 50	g pk
Frequency Range (±5%)	1 to 10	,000 Hz	1 to 5,000 Hz		1 to 4,000 Hz							
Weight	0.06 oz [1.7 gm]	0.06 oz [1.8 gm]	0.7 oz [20 gm]		0.95 oz [27 gm]	0.96 [27 gm]						
Optional Models - Metric Mounting	M353B17	M353B18	Included	Included	Included	Included						
Optional Models - Ground Isolation	J353B17	J353B18 / JM353B18	J353B31	J353B32	J353B33	J353B34						
Typical Applications	Low-noise applica	tion where overload o	r thermal shock may	be an issue; maintai	ns high stability throug	gh thermal cycling.						







TRIAXIAL THRU-BOLT ACCELERO	METERS WITH ISOL <i>i</i>	ATION			
Model Number	354C02	354C03	354B04	354B05	354C10
Sensitivity	10 mV/g	100 mV/g	10 mV/g	100 mV/g	10 mV/g
Measurement Range	± 500 g pk	± 50 g pk	± 500 g pk	± 50 g pk	± 500 g pk
Frequency Range (±5%)	0.5 to 2,000 Hz		0.6 to 10	2 to 8,000 Hz	
Isolation Method	Ground	Isolated	Case Is	Ground Isolated	
Optional Models - Metric Mounting	M354C02	M354C03	Included	Included	M354C10
Optional Models - TEDS	TLD354C02	TLD354C03	Included	Included	
Typical Applications	Structural analysis with low noise in applications with electromagnetic field interference				











SINGLE AXIS RING ACCELEROMETERS WITH ISOLATION									
Model Number	355B02	355B03	355A44	7250B-10	7251A-10	7251A-100			
Sensitivity	10 mV/g	100 mV/g	10 mV/g	10 mV/g	10 mV/g	100 mV/g			
Measurement Range	± 500 g pk	± 50 g pk	± 500 g pk	± 500 g pk	± 500 g pk	± 50 g pk			
Frequency Range (±5%)	1 to 10	,000 Hz	1 to 5,500 Hz	3 to 20,000 Hz 2 to 10,000 Hz (±10%)		Hz (±10%)			
Isolation Method	Ground	Isolated	Case Isolated		Ground Isolated				
Optional Models - Metric Mounting	M355B02	M355B03							
Typical Applications	A wide variety of applications from durability testing to active monitoring of harmonics								









MINIATURE TRIAXIAL ACCELERO	METERS - 0.25"	[6.4 MM] FAMILY				
Model Number	356A01	356A03	356A06	356A09	356A04	356A05
Sensitivity	5 mV/g	10 mV/g	5 mV/g	10 mV/g	1 mV/g	0.25 mV/g
Measurement Range	± 1,000 g pk	± 500 g pk	± 1,000 g pk	± 500 g pk	± 5,000 g pk	± 20,000 g pk
Frequency Range (±5%)		2 to 80	000 Hz		1.2 to 6	5,000 Hz
Weight		0.04 oz	[1.0 gm]		0.03 oz	[0.8 gm]
Optional Models - Less Cable	356A01/NC	356A03/NC	356A06/NC	356A09/NC	356A04/NC	356A05/NC
Optional Models - TEDS	TLD356A01	TLD356A03				
Optional Models - Ground Isolation	HTJ356B01	J356A03				
Typical Applications	General pu	General purpose applications requiring a medium size; ideal for modal analysis or vibration feedback.				









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SMALL TRIAXIAL ACCELEROMET	ERS - 0.40" [10).2 MM] FAMIL	Y				
Model Number	356A19	356A43	356A44	356A45	356B20	356B21	356A33
Sensitivity	10 m	nV/g	50 mV/g	100 mV/g	1 mV/g	10 :	mV/g
Measurement Range	± 500	g pk	± 100 g pk	± 50 g pk	± 5,000 g pk ± 500 g pk		0 g pk
Frequency Range (±5%)	1 to 13,000 Hz		0.7 to 7,000 Hz			2 to 10,000 Hz	
Weight	0.14 oz [4.0 gm]		0.15 oz [4.2 gm]		0.15 oz	[4.2 gm]	0.19 oz [5.4 gm]
Optional Models - Less Cable	356A19/NC				356B20/NC	356B21/NC	
Optional Models - TEDS	Included	Included	Included	Included			
Optional Models - Ground Isolation		J356A44	J356A44	J356A45		J356B21	
Typical Applications	General	General purpose applications requiring a medium size; ideal for modal analysis or vibration feedback.					edback.









TRIAXIAL ACCELEROMETERS							
Model Number	356A02	356A14	356A15	356A16	356A17		
Sensitivity	10 mV/g		100 mV/g				
Measurement Range	± 500 g pk		± 10 g pk				
Frequency Range (±5%)	1 to 5,000 Hz	0.5 to 5,000 Hz	2 to 5,000 Hz	0.5 to 5,000 Hz	0.5 to 3,000 Hz		
Weight		0.37 oz [10.5 gm]		0.26 oz [7.4 gm]	0.33 oz [9.3 gm]		
Optional Models - TEDS	TLD356A02	TLD356A14	TLD356A15	TLD356A16	TLD356A17		
Optional Models - High Temperature	HT356A02		HT356A15				
Typical Applications	General purpose, modal analysis, or vibration feedback						











Model Number	356B18	356A24	356A25	356A26	356A32	
Sensitivity	1,000 mV/g	10 mV/g	25 mV/g	50 mV/g	100 mV/g	
Measurement Range	± 0.5 g pk	± 500 g pk	± 200 g pk	± 100 g pk	± 50 g pk	
Frequency Range (±5%)	0.5 to 6,000 Hz	1 to 9,000 Hz	0.5 to 6,000 Hz		1 to 4,000 Hz	
Weight	0.88 oz [25 gm]	0.11 oz [3.1 gm]	0.88 oz	[25 gm]	0.19 oz [5.4 gm]	
Optional Models - TEDS	TLD356B18		TLD356A25	TLD356A26	TLD356A32	
Optional Models - High Temperature		HT356A24	HT356A25	HT356A26		
Typical Applications	General purpose, modal analysis, or vibration feedback					











HIGH SENSITIVITY ACCELEROMETERS								
Model Number	393A03	393B04	393B05	393B12	393B31	393B32		
Sensitivity	1,000 mV/g	1,000 mV/g	10.0 V/g	10.0 V/g	10.0 V/g	5.0 V/g		
Measurement Range	± 5 g pk	± 5 g pk	± 0.5 g pk	± 0.5 g pk	± 0.5 g pk	± 1 g pk		
Frequency Range (±5%)	0.5 to 2,000 Hz	0.06 to 450 Hz	0.7 to 450 Hz	0.15 to 1,000 Hz	0.1 to 200 Hz	0.2 to 200 Hz		
Broadband Resolution	0.00001 g rms	0.000003 g rms	0.000004 g rms	0.000006 g rms	0.000001 g rms	0.000002 g rms		
Optional Models - TEDS		TLD393B04	TLD393B05					
Typical Applications		Applications requiring low noise / high sensitivity such as seismic monitoring of structures and smart infrastructure systems						

CHARGE ACCELEROMETERS

Charge mode output accelerometers can operate at extremely high temperatures, up to 1200 °F (649 °C), because they do not contain the built-in signal conditioning electronics that limit the temperature range of ICP^{\otimes} accelerometers. They use piezoceramic sensing elements that output an electrostatic charge signal proportional to the applied acceleration.







HIGH TEMPERATURE, SIDE EXIT CONNECTOR CHARGE ACCELEROMETERS							
Model Number	357B03	357B21	7201-50	7201-10			
Sensitivity (±15 %)	10 pC/g	30 pC/g	50 pC/g	10 pC/g			
Measurement Range	±2,000 g pk	±1,500 g pk	2,000 g pk	2,000 g pk			
Frequency Range (±5%)	9,000 Hz	6,000 Hz	6,000 Hz	11,000 Hz			
Operating Temperature Range	-95 to +500 °F (-71 to +260 °C)						
Typical Applications	High temperature vibration measurements for product testing, structural testing, vibration control, and package drop testing						







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Model Number	2221F	7703A-100	7703A-50	7703A-200
Sensitivity	10 pC/g	100 pC/g	300 pC/g	200 pC/g
Measurement Range	2,000 g pk	500 g pk	2,000 g pk	850 g pk
Frequency Range (±5%)	10,000 Hz	5,000 Hz	6,000 Hz	4,000 Hz
Operating Temperature Range	-67 to +500 °F (-55 to +260 °C)	-67 to +550 °F (-55 to +288 °C)		
Typical Applications	High temperature vibration measurements on small structures and objects in extreme environmental conditions	High temperature vibration measurements in radiation environments up to 10 ⁸ rads		







HIGH TEMPERATURE, TOP EXIT CONNECTOR CHARGE ACCELEROMETERS							
Model Number	357B04	357B22	7704A-100	7704A-50			
Sensitivity (±15 %)	10 pC/g	30 pC/g	100 pC/g	50 pC/g			
Measurement Range	±2,000 g pk	±1,500 g pk	1,000 g pk	2,000 g pk			
Frequency Range (±5%)	9,000 Hz	6,000 Hz	6,000 Hz	5,000 Hz			
Operating Temperature Range	-95 to +500 °F (-95 to +500 °F (-71 to +260 °C)		(-55 to +288 °C)			
Typical Applications		High temperature vibration measurements for product testing, structural testing, vibration control, and package drop testing		measurements in radiation up to 10 ⁸ rads			







TRIAXIAL CHARGE ACCELEROMETERS								
Model Number	356A70	356A71	2228C					
Sensitivity (±15 %)	2.7 pC/g	10 pC/g	2.8 pC/g					
Measurement Range	±500 g pk	±500 g pk	2,000 g pk					
Frequency Range (±5%)	5,000 Hz	5,000 Hz	4,000 Hz					
Operating Temperature Range	-95 to +490 °F (-71 to +254 °C)							
Typical Applications	Vibration measurements for modal analysis, micro machining, motors and pumps, and vibration isolation							







MINIATURE CHARGE ACCELEROMETERS					
Model Number	357B11	2220E	7240C		
Sensitivity (±15 %)	3.0 pC/g	3 pC/g	3 pC/g		
Measurement Range	±2,300 g pk	5,000 g pk	5,000 g pk		
Frequency Range (±5%)	12,000 Hz	10,000 Hz	5,000 Hz		
Operating Temperature Range	-95 to +500 °F (-71 to +260 °C)				
Typical Applications	Vibration measurements for small objects, micro machining, motors and pumps, and vibration isolation				

	2276L		
Model Number	2226C	2222C	357A07
Sensitivity	2.8 pC/g	1.4 pC/g	1.7 pC/g
Measurement Range	2,000 g pk	2,000 g pk	±2,000 g pk
Frequency Range (±5%)	5,000 Hz	8,000 Hz	15,000 Hz
Operating Temperature Range	-67 to +350 °F (-55 to +177 °C)	-67 to +350 °F (-55 to +177 °C)	-100 to +500 °F (-73 to +260 °C)
Typical Applications	Vibration measurements for sm	all objects, micro machining, motors an	d pumps, and vibration isolation

CHARGE ACCELEROMETERS



HIGH TEMPERATURE, DIFFERENTIAL CHARGE ACCELEROMETERS					
Model Number	6222S-20A	6222S-50A	6222S-100A		
Sensitivity (±15 %)	20 pC/g	50 pC/g	100 pC/g		
Measurement Range	2,000 g pk 1,000 g pk 500 g pk				
Frequency Range (±5%)	9,000 Hz	6,000 Hz	6,000 Hz		
Operating Temperature Range	-65 to +500 °F (-54 to +260 °C)				
Typical Applications	Vibration measurement of gas turbine engines used in aircraft and industrial applications				









VERY HIGH TEMPERATURE, SINGLE ENDED, RADIATION HARDENED CHARGE ACCELEROMETERS							
Model Number	357B61	357B69	357A63	EX356A73			
Sensitivity	10 pC/g (±10%)	3.5 pC/g (±20 %)	0.53 pC/g (±10%)	3.1 (±10%)			
Measurement Range	±1,000 g pk	±1,000 g pk ±500 g pk ±5000 g pk ±5000 g pk					
Frequency Range	5,000 Hz (±5%)	6,000 Hz (±5 %)	10,000 Hz (±10%)	4,000 Hz (±5%)			
Operating Temperature Range	-65 to +900 °F (-54 to +482 °C)						
Typical Applications	Engine compartment studies, exhaust component vibration tests, steam turbine testing, and engine vibration analysis						







VERY HIGH TEMPERATURE, DIFFERENTIAL, RADIATION HARDENED CHARGE ACCELEROMETERS								
Model Number	EX357C71	EX357C71 EX357C72 EX357C73						
Sensitivity (±5 %)	10 pC/g	50 pC/g	100 pC/g					
Measurement Range	±1,000 g pk	±1,000 g pk ±500 g pk ±300 g pk						
Frequency Range (±5%)	4,000 Hz	2,500 Hz	2,000 Hz					
Operating Temperature Range	-65 to +900 °F (-54 to +482 °C)							
Typical Applications	Engine compartment studies, exhaust component vibration tests, steam turbine testing, and engine vibration analysis							





EXTREME TEMPERATURE, SINGLE ENDED, RADIATION HARDENED CHARGE ACCELEROMETERS								
Model Number	EX357E90	EX357E91	EX357E92	EX357E93	357A64			
Sensitivity (±10%)	5 pC/g	5 pC/g	2.3 pC/g	2.3 pC/g	1.15 pC/g			
Measurement Range	±1,000 g pk	±1,000 g pk						
Frequency Range (±5%)	3,000 Hz	3,000 Hz	3,000 Hz	3,000 Hz	10,000 Hz			
Operating Temperature Range	-67 to 1200 °F (-55 to 649 °C)							
Typical Applications	Ultra-high temperatu	Ultra-high temperature measurements for engine compartment studies, exhaust component vibration tests, steam turbine testing and engine vibration analysis						



EXTREME TEMPERATURE, DIFFERENTIAL, RADIATION HARDENED CHARGE ACCELEROMETERS						
Model Number	EX357A94 EX357A95					
Sensitivity (±10%)	5 pC/g	5 pC/g				
Measurement Range	±1,000 g pk ±1,000 g pk					
Frequency Range (±5%)	3,000 Hz	3,000 Hz				
Operating Temperature Range	-67 to 1200 °F (-55 to 649 °C)					
Typical Applications	Aviation / power generation turbine research and development applications					



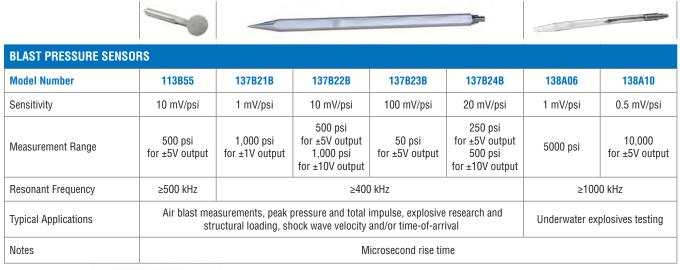




CRYOGENIC CHARGE ACCELEROMETERS								
Model Number	2271AM20	2271AM20 2271A 7722 7724						
Sensitivity (±15 %)	11.5 pC/g	11.5 pC/g	3.7 pC/g	3.7 pC/g				
Measurement Range	10,000 g pk	10,000 g pk	500 g pk	500 g pk				
Frequency Range (±5%)	4,000 Hz	4,000 Hz	4,000 Hz	4,000 Hz				
Operating Temperature Range	-452 to +500 °F (-269 to +260 °C)							
Typical Applications	Rocket engine testing, vibroacoustic testing, and vehicle dynamics studies							

PIEZOELECTRIC PRESSURE SENSORS

PCB® designs and manufactures high quality piezoelectric pressure sensors for a variety of testing applications. For dynamic pressure measurements, piezo-type pressure sensors incorporate self-generating quartz, tourmaline, ceramic or UHT-12™ sensing elements. Our commercial line of piezoelectric pressure sensors are used for a variety of dynamic pressure measurements from <0.001 to >100,000 psi. The capability to measure small pressure fluctuations, such as fluid-borne noise at high static levels, is a unique characteristic of piezoelectric pressure sensors. Piezoelectric pressure sensors may be categorized as either charge mode or ICP® voltage mode output. Charge mode sensors are generally used for higher temperature applications above 275 °F (135 °C), and several models fit in the range of -400 °F (-240 °C) to +1400 °F (+760 °C). They generate a high-impedance charge signal (pC/psi) that must be connected to a low-noise cable and charge amplifier. With amplified output ICP® pressure sensors, we incorporate a built-in microelectronic signal conditioners and output a low-impedance voltage signal (mV/psi). These pressure sensors operate from a low-cost, constant-current signal conditioner or may connect directly to a readout instrument with a built-in constant-current source. The sensors are well-suited for continuous operation in dirty environments, underwater, and in-field test applications across long cables. These sensors are ideal for virtually all dynamic pressure applications where sensor temperatures range from -320 to +275 °F (-196 to +135 °C).





CONFORMAL PRESSURE SENSORS FOR SMALL ARMS TESTING					
Model Number	117B Small Caliber 117B Large Caliber				
Sensitivity	0.110 pC/psi	0.140 pC/psi			
Measurement Range	35 kpsi 60 kpsi				
Resonant Frequency	> 300 kHz				
Typical Applications	Production testing of ammunition in accordance with the SAAMI standard				
Notes	Contact factory for proper model number to match the caliber of ammunition under test				







BALLISTICS AND GUN PRESSURE SENSORS					
Model Number	118A07	119C12	109D12		
Sensitivity	0.28 pC/psi	0.25 pC/psi 0.07 mV/ps			
Measurement Range	15 kpsi	100 kpsi			
Resonant Frequency	≥175 kHz	≥400 kHz			
Typical Applications	Shotgun shell pressure measurement	Gun chamber pressure measurements			
Notes	Increased rounds capability for SAAMI standard test method	Case mouth pressure measurement			







ACOUSTIC PRESSURE SENSORS							
Model Number	106B 106B50 106B52						
Sensitivity	300 mV/psi	500 mV/psi	5000 mV/psi				
Measurement Range	8.3 psi for ±2.5V output 5 psi for ±2.5V output 1 psi for ±5V output						
Resonant Frequency	≥60 kHz	≥60 kHz ≥40 kHz					
Typical Applications	Acoustic measurements						
Notes	Highly sensitive, acceleration-compensated for intense acoustic phenomena						





GENERAL PURPOSE HIGH FREQUENCY PRESSURE SENSORS							
Model Number	102B	102B03	102B04	102A05	102B06	112A21	112A22
Sensitivity	1 mV/psi	0.5 mV/psi	5 mV/psi	50 mV/psi	10 mV/psi	50 mV/psi	100 mV/psi
Measurement Range	5,000 psi for ±5V output	10,000 psi for ±5V output	1,000 psi for ±5V output	100 psi for ±5V output	500 psi for ±5V output 1,000 psi for ±10V output	100 psi f or ±5V output 200 psi for ±10V output	50 psi for ±5V output
Resonant Frequency		≥500 kHz) kHz
Typical Applications	Shock tubes and closed bombs, time-of-arrival measurements, explosion, blast, and shock wave measurements				pulsations, espe environments in	ise, sound, and ecially in adverse Influids and wind testing	



Model Number	113B21	113B22	113B23	113B24	113B26	113B28
Sensitivity	25 mV/psi	1 mV/psi	0.5 mV/psi	5 mV/psi	10 mV/psi	100 mV/psi
Measurement Range	200 psi for ±5V output	5,000 psi for ±5V output	10,000 psi for ±5V output	1,000 psi for ±5V output	500 psi for ±5V output	50 psi for ±5V output
Resonant Frequency	≥500 kHz					
Typical Applications	Shock tubes and closed bombs, time-of-arrival measurements, explosion, blast, and shock wave measurements					

PIEZOELECTRIC PRESSURE SENSORS



SPECIALTY CRYOGENIC PRESSURE SENSORS							
Model Number	102B10	102B11	102B13	102B14			
Sensitivity	50 mV/psi	5 mV/psi	0.5 mV/psi	1 mV/psi			
Measurement Range	100 psi for ±5V output	1,000 psi for ±5V output	10,000 psi for ±5V output	5,000 psi for ±5V output			
Resonant Frequency		≥250) kHz				
Temperature Range		-400 to +212 °F (-240 to +100 °C)					
Typical Applications	Cryogenic p	Cryogenic pumps, cryogenic fuel systems, and rocket motor combustion instability					
Notes		Ideal for liquid nitrogen, oxygen, and methane					









SPECIALTY HIGH TEMPERATURE PRESSURE SENSORS						
Model Number	176A02	176A03	176A07	176M42A		
Sensitivity	6 pC/psi	16 pC/psi	7 pC/psi	15 pC/psi		
Measurement Range	725 psi	290 psi	725 psi	2,000 psi		
Resonant Frequency	≥100 kHz	≥50 kHz	≥100 kHz	≥50 kHz		
Temperature Range	-94 to 1200 °F (-70 to 650 °C) -94 to 1400 °F					
Typical Applications	For power generation applications and on-turbine combustion instability monitoring					
Notes	Features UHT-12™ crystal technology sealed in a hermetic package for long-term reliability					











			4 10 10			
Model Number	176A31	176A33	116B	112B05	112A06	
Sensitivity		6 pC/psi		1.1 mV/psi	2.8 pC/psi	
Measurement Range	3,000 psi		100 psi	5,000 psi	5,000 psi	
Resonant Frequency	≥100 kHz		≥55 kHz	≥200 kHz	≥200 kHz	
Temperature Range	-94 to 1400 °F		-400 to 650 °F	-400 to +500 °F	-400 to +662 °F	
Typical Applications	,	on dynamics, gas turbines, noacoustics	Compression, combustion, explosion, pulsation, actuation, cavitation, fluid, blast, turbulence and sound pressures	Cryogenic pumps, cryo combustion instabil	genic fuel systems, and ity of rocket motors	
Notes	Features UHT-12™ crystal technology sealed in a hermetic package for long-term reliability		Acceleration compensated to minimize vibration sensitivity	Cryogenic, high temperature, and acceleration compensation		

PIEZORESISTIVE PRESSURE SENSORS (2)

Endevco miniature piezoresistive pressure sensors measure both dynamic and static pressure in process control applications, blast testing, automotive airbag testing, rocket motor analysis, jet engine inlet pressure measurements, transmission testing and hydraulics measurements. A four-arm strain gage bridge MEMS sensing element, implanted into a sculpted diaphragm, offers wideband frequency response with exceptional sensitivity for improved resolution, high resonance frequency, exceptional linearity and hysteresis performance.



PRESSURE TRANSDUCE	RS			
Model Number	8507C	8510B	8510C	8511A
Description	Ultra-miniature (0.092" diameter), gage, adhesive mount	High sensitivity, gage, 10-32 thread	High resonance, gage, 10-32 thread	High pressure, gage, 3/8" thread
Full Scale Pressure (psig)	1/2/5/15	1 / 2 / 5 / 200 / 500 / 2000	15 / 50 / 100	5000 / 10,000 / 20,000
Sensitivity (mV/psi)	200 / 100 / 60 / 20	200 / 100 / 60 / 1.5 / 0.6 / 0.15	15 / 4.5 / 2.25	0.1 / 0.05 / 0.025
Resonance Frequency (kHz)	55 / 70 / 85 / 130	55 / 70 / 85 / 320 / 500 / 900	180 / 320 / 500	Greater than 1000
Non Linearity (typ) %FSO	1.0 / 1.0 / 0.5 / 0.2	1.0/1.0/0.5/0.25/0.25/0.25	0.15 / 0.1 / 0.1	1.2 / 2.5 / 2.5
Typical Applications	Wind tunnel scale models and pressure probes	Aerospace, automotive and ind small size, high sensitivity, and	Studies of structural loading by shock waves resulting from explosive blasts, pulsations in hydraulic and combustion systems, such as airbag testing	







Model Number	8515C	8530B	8530C	
Description	Low profile (0.03"), absolute, adhesive mount	High sensitivity, absolute, 10-32 thread	High resonance, absolute, 10-32 thread	
Full Scale Pressure (psia)	15 / 50	200 / 500 / 1000 / 2000	15 / 50 / 100	
Sensitivity (mV/psi)	13.3 / 4.0	1.5 / 0.6 / 0.3 / 0.3	15 / 4.5 / 2.25	
Resonance Frequency (kHz)	180 / 320	750 / 1000 / >1000 / >1000	180 / 320 / 500	
Non Linearity (typ) %FSO	0.2	0.2	0.15 / 0.1 / 0.1	
Typical Applications	Small-scale models in wind tunnel tests, as well as on aerodynamic surfaces during flight tests and blast testing on anthropomorphic test dummies	Aerospace, automotive and industrial measurements requiring small size,		



VARIABLE CAPACITANCE ACCELEROMETERS

Variable capacitance (VC) accelerometers are DC response sensors for measuring low frequency vibration, motion (constant acceleration) and tilt. With rugged construction and internal electronics, these sensors provide a high-level, low-impedance output which is stable over the wide operating temperature range. While designed for low-g measurement, they can withstand very high-g shocks. These accelerometers are suitable for trajectory monitoring, flutter testing, automotive ride quality and vehicle dynamics measurements.











Model Number	3711F	3713F	3741F	3743G	7290G
Description	Single-ended variable capacitance accelerometer	Single-ended triaxial variable capacitance accelerometer	Differential variable capacitance accelerometer	Differential triaxial variable capacitance accelerometer	Differential or single-ended variable capacitance accelerometer
Linear Range (g)	±2/±10/±30/±	±50 / ±100 / ±200	±2 / ±5 / ±10 / ±30 / ±50 / ±100 / ±200		±2 / ±5 / ±10 / ±30 ±50 / ±100 / ±200
Sensitivity (mV/g typical)	675 / 135 / 45 /	27 / 13.5 / 6.75	1350 / 540 / 270 / 90 / 54 / 27 / 13.5		1000 / 400 / 200 / 66 40 / 20 / 10
Frequency Response (±5%, Hz)	0-250 / 0-1000 / 0-1500 / 0-1500 / 0-1500 / 0-1500 0-250 / 0-1000 / 0-1000 / 0-1500 / 0-1500 0-1500 / 0-1500 / 0-1500				0-15 / 0-30 / 0-500 / 0-1000 / 0-2000 / 0-2000 / 0-2000
Shock Limit (g)	5,000				5,000 (2, 5, 10g) 10,000 (30, 50, 100 & 200)
Typical Applications	Aircraft flight testing of flutter/buffeting and landing gear; simulated environmental testing with shakers and centrifuges; automotive testing of suspension, shock absorption, and damping; vehicle driveability, ride quality and handling; brake and steering development; and road load data acquisition (RLDA).				



INERTIAL SENSORS







INERTIAL SENSORS				
Model Number	7310A	7330	7360A	
Description	Angular rate sensor	Triaxial angular rate sensor	Six degrees of freedom (6DoF) sensor	
Linear Range	±100 / ±500 / ±1,500 / ±6,000 / ±8	Accelerometers: ±2 / ±10 / ±50 / ±200 / ±500 g Angular rate sensors: ±100 / ±500 / ±1,500 / ±8,000 / ±12,000 ±18,000 deg/sec		
Sensitivity	20 / 4 / 1.333 / 0.333 / 0.25	Accelerometers: 1000 / 200/ 40 / 10 / 4 mV/g Angular rate sensors: 20 / 4 / 1.333 / 0.25 / 0.167 / 0.111 mV/deg/sec		
Frequency Response	0-1000 / 0-1000 / 0-1000 / 0-1000 / 0-	Accelerometers: 0-300 / 0-1500 / 0-1800 0-1800 / 0-1800 ±1dB Hz Angular rate sensors: 0-1000 / 0-1000 / 0-1000 / 0-1000 0-2000 / 0-2000 +1dB/-3dB Hz		
Shock Limit (g)	5,000			
Typical Applications	Automotive safety and ATD testing, and other applications requiring accurate measurement of rotational velocity	Automotive and aerospace testing requiring pitch, roll and yaw measurement, automotive roll-over ATD head, chest and leg positions	Vehicle dynamics, aircraft flight testing, spacecraft and satellite, missile testing, and automotive testing	

PIEZORESISTIVE ACCELEROMETERS









PIEZORESISTIVE ACCELEROMETERS						
Model Number	7264B	7264C	726CH	7264H	7268C	
Description	Undamped accelerometer with center CG location	Undamped accelerometer; SAE J211 / J2570 compliant	High sensitivity accelerometer with multi-mode damping; SAE J211/J2570 compliant	Accelerometer with multi-mode damping; SAE J211/J2570 compliant	Triaxial undamped accelerometer; WorldSID ATD	
Linear Range (g)	±500 /	±2000	±2000		±500 / ±2000	
Sensitivity (mV/g typical)	0.80	/ 0.20	0.30		0.80 / 0.20	
Frequency Response (±5%, Hz)	0-3000 /	0-3000 / 0-5000		0-6000	0-3000 (Z axis); 0-1500 (X & Y axis)	
Shock Limit (g pk)	5000 / 10,000		10,000		5,000 / 10,000	
Typical Applications	In-dummy crash and shock measurements	Crash and shock measurements	In-dummy crash and shock measurements	Passenger safety testing	In-dummy crash and shock measurements	









Model Number	701AH/701FH	757AH/757FH	758H	713AL/713FL		
Description	Accelerometer with multi- mode damping, rugged Al housing and 28 AWG cable	Small, lightweight accelerometer with multi-mode damping and 28 MWG cable, for multiple cable mounting surfaces		Triaxial, high sensitivity accelerometer with multi- mode damping		
Linear Range (g)	±1000	±2000				
Sensitivity (mV/g typical)	0.30					
Frequency Response (±5%, Hz)	0-4000	0-3000	0-3000 0-4000			
Shock Limit (g pk)	10,000					
Typical Applications	Automotive crash, front, rear and side impact, crush zones, sled testing, general shock and impact					













UNDAMPED PIEZORESISTIVE ACCELEROMETERS						
Model Number	7270A	7270AM4	7270AM6	7270AM7	7274A	
Description	High resonance, undamped accelerometer; shock standard	High resonance, undamped accelerometer with stud mount	Rugged accelerometer with mechanical filter and stud mount	Extremely rugged, undamped accelerometer with low noise cable	Triaxial, undamped accelerometer; high resonance	
Linear Range (g)	±2000 / ±6000 / ± ±200	20,000 / ±60,000 / 0,000	±2000 / ±6000 / ±20,000 / ±60,000	±2000 / ±6000 / ±20,000 / ±60,000 / ±200,000	±2000 / ±6000 / ±20,000 / ±60,000	
Sensitivity (uV/g typical)	100 / 30 / 10 / 3 / 1 (10V excitation)		100 / 30 / 10 / 3 (10V excitation)	100 / 30 / 10 / 3 / 1 (10V excitation)	50 / 15 / 5 / 1.5 (5V excitation)	
Frequency Response (±5%, kHz)	0-10 / 0-20 / 0-50 / 0-100/ 0-150		0-10 all ranges	0-10 / 0-20 / 0-50 / 0-100/ 0-150	0-18 / 0-36 / 0-70 / 0-140	
Shock Limit (g pk)	10,000 / 18,000 / 60,00	00 / 180,000 / 200,000	10,000 / 18,000 / 60,000 / 180,000	10,000 / 18,000 / 60,000 / 180,000 / 200,000	10,000 / 18,000 / 60,000 / 180,000	
Typical Applications	Shock measureme	High-acceleration shock measurements in three axes				



PIEZORESISTIVE ACCELEROMETERS









DAMPED PIEZORESISTIVE ACC	DAMPED PIEZORESISTIVE ACCELEROMETERS						
Model Number	2262B	7280A	7280AM7	7284A			
Description	High sensitivity accelerometer with multi- mode damping; rugged to 10,000 g shocks	Extremely rugged, lightly damped accelerometer with low power consumption	Extremely rugged, lightly damped accelerometer with low noise cable	Triaxial, lightly damped accelerometer with low noise cable			
Linear Range (g)	±1,000 / ±2,000 / ±6,000	±2,000 / ±20,000 / ±60,000					
Sensitivity (μV/g)	450 / 300 / 15 (10V excitation)	300 / 16 / 5 (10V excitation)		150 / 8 / 2.5 (5V excitation)			
Frequency Response (±5%, kHz)	0-3	0-10 / 0-10 / 0-20					
Shock Limit (g pk)	10,000	10,000 / 80,000 / 240,000		10,000 / 60,000 / 180,000			
Typical Applications	Ship shock and military vehicle testing	Mechanical shock, near and far-field pyroshock, high shock data recorders, weapons, and rocket testing					









HIGH SHOCK PIEZORESISTIVE ACCELEROMETERS - SMT					
Model Number	72 74		75		
Description	Lightly damped, rugged accelerometer with ESD protection	Triaxial, lightly damped accelerometer; surface mount LCC	Triaxial, undamped accelerometer; surface mount LCC		
Linear Range (g)	±2,000 / ±20,	±2,000 / ±6,000 / ±20,000 / ±60,000			
Sensitivity (µV/g)	150 / 8 / 2.5 (5V excitation)		50 / 15 / 5 / 1.5 (5V excitation)		
Frequency Response (kHz)	0-10 / 0-10 / 0-20		0-18 / 0-36 / 0-70 / 0-140		
Shock Limit (g)	10,000 / 80,000 / 240,000	10,000 / 60,000 / 180,000	10,000 / 18,000 / 60,000 / 80,000		
Typical Applications	Wide range of acceleration, vibration, and shock applications requiring minimum zero shift following a shock event	High-acceleration shock measurements in three axes			

MICROPHONES

The identification of noise sources is necessary to evaluate and reduce noise levels. "Noise" denotes unwanted sound, and hence, the need to negate these sounds and vibrations. Vibrations above and below a specific range may not be detectable to the human ear, but may still require treatments for improved product performance and longevity. When selecting a microphone, an end user must understand what frequency ranges and amplitudes they will be testing.



1/2" (12MM) MICROPHONE AND PREAMPLIFIER SYSTEMS					
Model Number	378B02	378A04	378A06	378B11	
Response Characteristic	Free-field	Free-field	Free-field	Pressure	
Sensitivity	50 mV/Pa	450 mV/Pa	12.6 mV/Pa	50 mV/Pa	
Frequency Range	3.75-20,000 Hz	5.0-20,000 Hz	3.15-40,000 Hz	3.75-10,000 Hz	
Inherent Noise	15.5 dBA	5.5 dBA	22 dBA	16 dBA	
Dynamic Range (3% Distortion)	137 dB	>80 dB	150 dB	137 dB	
Typical Applications	Precision sound level measurements, transfer path analysis, environmental noise monitoring, white goods testing in anechoic chambers	Computer desk drives, electric vehicle sound quality, environmental noise monitoring, white goods noise source identification, sound power measurements	Environmental monitoring, railway and horn testing, sonic boom measurements	For use in couplers, HVAC testing, impedance tubes	
Notes	Ideal for audible range, low to medium amplitudes	Ideal for extreme low amplitude measurements	ldeal for high frequency measurements	Ideal for extreme low amplitude measurements	

Model Number	378C13	378C20	378A21
Response Characteristic	Pressure	Random incidence	Random incidence
Sensitivity	12.6 mV/Pa	50 mV/Pa	12.6 mV/Pa
Frequency Range	3.15-20,000 Hz	3.75-16,000 Hz	4-25,000 Hz
Inherent Noise	22 dBA	16 dBA	22 dBA
Dynamic Range (3% Distortion)	150 dB	137 dB	150 dB
Typical Applications	For use in couplers, HVAC testing, impedance tubes	Cabin measurements, environmental monitoring, room acoustics, tests within reverb chambers	Cabin noise, environmental monitoring, white goods testing, room acoustics
Notes	Ideal for high frequency measurements, high upper dynamic range	Ideal for low sound pressure measurements in reflective environments	Ideal for high frequency measurements in reflective environments





1/4" (6MM) MICROPHONE A	ND PREAMPLIFIER S	YSTEMS			
Model Number	378C01	378A08	378C10	378A14	378A12
Response Characteristic	Free-field	Free-field	Pressure	Pressure	Pressure
Sensitivity	50 mV/Pa	50 mV/Pa	1 mV/Pa	1 mV/Pa	0.25 mV/Pa
Frequency Range	4-100,000 Hz	12 to 20,000 Hz	5-70,000 Hz	4-70,000 Hz	5-20,000 Hz
Inherent Noise	42 dBA	22 dBA	50 dBA		60 dBA
Dynamic Range (3% Distortion)	165 dB	123 dB	173 dB		182 dB
Typical Applications	Hearing preservation and safety, leak detection, gunshot analysis, acoustic transient measurements	NVH testing, electric automobile testing, component tests, cabin noise, computer fan or disk drive noise, and white goods testing	Precision sound level analysis, hearing preservation and safety, leak detection, gunshot analysis	Impedance tube, flush mounting application, closed couplers, gunshot analysis	Precision sound level measurements, hearing preservation and safety, airbag testing, blast detectio and gunshot analysis
Notes	High amplitude, high frequency	multiple sound field usage capability	High amplitude, high frequency	Side vented	Extreme high amplitudes

MICROPHONES



SPECIALTY MICROPHONE AND PREAMPLIFIER SYSTEMS					
Model Number	EX378B02	377B26	379A12	379A13	
Response Characteristic	Free-field	Pressure	Free-field	Random incidence	
Sensitivity	50 mV/Pa	2.15 mV/Pa	50 mV/Pa		
Frequency Range	3.75-20,000 Hz	2-20,000 Hz	3.75-20,000 Hz		
Inherent Noise	15.5 dBA	44 dBA	15.5 dBA	16 dBA	
Dynamic Range (3% Distortion)	137 dB	165 dB	137 dB		
Typical Applications	Leak detection and gas tank testing, mine safety, and environmental noise monitoring	Exhaust testing for automotive and aerospace applications, speaker and telephone testing, acoustic impedance measurements, musical instrument analysis, leak detection in industrial settings	Automotive NVH testing and testing in harsh environments		
Notes	Hazardous area approved	High temperature probe	Free-field system with ruggedized grid cap for drop and shock protection	Random incidence system with ruggedized grid cap for drop and shock protection	



Model Number	376A31	376A32	376A33	
Response Characteristic	Free-field			
Sensitivity	2 mV/Pa	50 mV/Pa	12.6 mV/Pa	
Frequency Range	4-100,000 Hz	3.75-20,000 Hz	3.75-40,000 Hz	
Inherent Noise	40 dBA	15.5 dBA	22 dBA	
Dynamic Range (3% Distortion)	165 dB	137 dB	150 dB	
Typical Applications	Loudspeaker design (rub and buzz), accurate modeling, high definition recording			
Notes	Free-field 1/4" 48V Phantom Power, high amplitude	Free-field 1/2" 48V Phantom Power, low noise	Free-field 1/2" 48V Phantom Power, high frequency	









ARRAY MICROPHONE AND PREAMPLIFIER SYSTEMS						
Model Number	130A23	130A24	130B40			
Response Characteristic	Free-	field	Pressure			
Sensitivity	14 mV/Pa	10 mV/Pa	8.5 mV/Pa			
Frequency Range	20-20,000 Hz (±2 dB)	20-16,000 Hz (±3 dB)	100-3,000 Hz (±1 dB)			
Inherent Noise	30 dBA	<30 dBA	<32 dBA			
Dynamic Range (3% Distortion)	143 dB	143 dB	150 dB			
Typical Applications	Noise identification, near-field acoustic holography, sound pressure mapping, acoustic camera, beamforming, and other large channel count applications					
Notes	Large channel count applications	Water and dust resistant	Low profile, surface microphone			







Model Number	130F20	130F21	130F22			
Response Characteristic	Free-field	Free-field	Free-field			
Sensitivity	45 mV/Pa	45 mV/Pa	45 mV/Pa			
Frequency Range		20 to 10,000 Hz (±2 dB)				
Inherent Noise		<26 dBA				
Dynamic Range (3% Distortion)		>122 dB				
Typical Applications	Noise identification, near-field acoustic holography, sound pressure mapping, acoustic camera, beamforming, and other large channel count applications					
Notes	General purpose, BNC connector	General purpose, 10-32 connector	General purpose, SMB connector			

PCB's quartz-based, piezoelectric force and strain sensors are durable measurement devices with exceptional characteristics for measuring high frequency dynamic force and strain events. Typical measurements include dynamic and quasi-static forces encountered during actuation, cutting, crimping, compression, impact, impulse, reaction, and tension.



GENERAL PURPOSE QUARTZ ICP® FORCE SENSORS							
Model Number	208C01	(TLD)208C02	(TLD)208C03	208C04	208C05		
Sensitivity (±15 %)	500 mV/lb	50 mV/lb	10 mV/lb	5 mV/lb	1 mV/lb		
Measurement Range (Compression / Tension)	10 lb / 10 lb	100 lb / 100 lb	500 lb / 500 lb	1,000 lb / 500	5,000 lb / 500		
Low Frequency Response (-5 %)	0.01 Hz	0.001 Hz	0.0003 Hz				
Upper Frequency Limit			36,000 Hz				
Discharge Time Constant	≥50 sec	≥50 sec ≥500 sec ≥2,000 sec					
Typical Applications	Validation of dynamic force in repetitive automation and machine tool processes; drop testing; integration into force plates and material sample testing equipment.						



Model Number	200C20	200C50				
Sensitivity (±15 %)	0.25 mV/lb	0.10 mV/lb				
Measurement Range (Compression / Tension)	20,000 lb / 30,000 lb 50,000 lb / 75,000 lb					
Low Frequency Response (-5 %)	0.0003 Hz					
Upper Frequency Limit	40,000 Hz	30,000 Hz				
Discharge Time Constant	≥2,000 sec					
Typical Applications	Package drop testing and shock testing; applications involving repetitive impacts; crash testing and punch and tablet presses.					











GENERAL PURPOSE QUARTZ CHARGE FORCE SENSORS						
Model Number	218C	218A11	210B20	210B50		
Sensitivity (±15 %)	18 pC/lb					
Measurement Range (Compression / Tension)	≤5,000 lb	/ ≤500 lb	≤20,000 lb	≤50,000 lb		
Upper Frequency Limit	36,00	00 Hz	40,000 Hz	30,000 Hz		
Temperature Range	-300 to +400 °F (-184 to +204 °C)					
Typical Applications	Multi-purpose force measurements					







ICP® FORCE RINGS							
Model Number	201B01	201B02	201B03	201B04	201B05	201B76	
Sensitivity (±15 %)	500 mV/lb	50 mV/lb	10 mV/lb	5 mV/lb	1 mV/lb	1 mV/lb	
Measurement Range (Compression)	10 lb	100 lb	500 lb	1,000 lb	5,000 lb	5,000 lb	
Low Frequency Response (-5 %)	0.01 Hz	0.006 Hz	0.002 Hz	0.001 Hz	0.0003 Hz	0.0003 Hz	
Upper Frequency Limit		90,000 Hz					
Discharge Time Constant	≥50 sec	≥120 sec	≥400 sec	≥700 sec	≥2,000 sec	≥2,000 sec	
Typical Applications	Microsecond duration events common to metal forming equipment (crimp, bend, stake, or stamp), drop testing, and product testing applications						













Model Number	(M)202B	(M)203B	(M)204C	(M)205C	(M)206C	(M)207C	
Sensitivity (±15 %)	0.50 mV/lb	0.25 mV/lb	0.12 mV/lb	0.08 mV/lb	0.06 mV/lb	0.05 mV/lb	
Measurement Range (Compression)	10,000 lb	20,000 lb	40,000 lb	60,000 lb	80,000 lb	100,000 lb	
Low Frequency Response (-5 %)	0.0003 Hz						
Upper Frequency Limit	60,00	00 Hz	55,000 Hz	50,000 Hz	40,000 Hz	35,000 Hz	
Discharge Time Constant	≥2,000 sec						
Typical Applications	Microsecond duration events common to metal forming equipment (crimp, bend, stake, or stamp), drop testing, and product testing applications						















CHARGE FORCE RINGS	S						
Model Number	211B	(M)212B	(M)213B	(M)214B	(M)215B	(M)216B	(M)217B
Sensitivity (±15 %)		18 pC/lb					
Measurement Range (Compression)	≤5,000 lb	≤10,000 lb	≤20,000 lb	≤40,000 lb	≤60,000 lb	≤80,000 lb	≤100,000 lb
Upper Frequency Limit	90,000 Hz	60,0	60,000 Hz		50,000 Hz	40,000 Hz	35,000 Hz
Temperature Range		-100 to +400 °F (-73 to +204 °C)					
Typical Applications	Force measurements involving high temperatures, over-extended force ranges or frequencies, or varying pulse widths						



ICP® FORCE LINKS						
Model Number	(M)221B01	(M)221B02	(M)221B03	(M)221B04	(M)221B05	
Sensitivity (±15 %)	500 mV/lb	50 mV/lb	10 mV/lb	5 mV/lb	1 mV/lb	
Measurement Range (Compression / Tension)	10 lb / 10 lb	100 lb / 100 lb	500 lb / 500 lb	1,000 lb / 1,000 lb	5,000 lb / 1,000 lb	
Low Frequency Response (-5 %)	0.01 Hz	0.006 Hz	0.002 Hz	0.001 Hz	0.0003 Hz	
Upper Frequency Limit			15,000 Hz			
Discharge Time Constant	≥50 sec	≥120 sec	≥400 sec	≥700 sec	≥2,000 sec	
Typical Applications	Tensile testing, press monitoring, material testing, machine process monitoring					













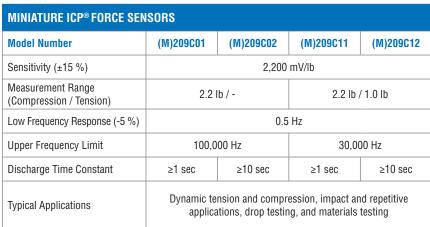
Model Number	(M)222B	(M)223B	(M)224C	(M)225C	(M)226C	(M)227C	
Sensitivity (±15 %)	0.90 mV/lb	0.42 mV/lb	0.20 mV/lb	0.14 mV/lb	0.11 mV/lb	0.10 mV/lb	
Measurement Range (Compression / Tension)	6,000 lb / 2,500 lb	12,000 lb / 4,000 lb	25,000 lb / 8,000 lb	35,000 lb / 12,000 lb	45,000 lb / 20,000 lb	50,000 lb / 30,000 lb	
Low Frequency Response (-5 %)	0.0003 Hz						
Upper Frequency Limit	12,000 Hz	10,000 Hz	8,000 Hz	6,000 Hz	5,000 Hz	4,000 Hz	
Discharge Time Constant			≥2,00	00 sec			
Typical Applications	Tension and compression, push rod testing, machinery process monitoring, repetitive operations, press force monitoring, and tensile testing						



CHARGE FORCE LINKS							
Model Number	(M)231B	(M)232B	(M)233B	(M)234B	(M)235B	(M)236B	(M)237B
Sensitivity (±15 %)			18 դ	oc/lb			17 pC/lb
Measurement Range (Compression / Tension)	≤5,000 lb / ≤1,000 lb	≤6,000 lb / ≤2,500 lb	≤12,000 lb / ≤4,000 lb	≤25,000 lb / ≤8,000 lb	≤35,000 lb / ≤12,000 lb	≤45,000 lb / ≤20,000 lb	≤50,000 lb / ≤30,000 lb
Upper Frequency Limit	15,000 Hz	12,000 Hz	10,000 Hz	8,000 Hz	6,000 Hz	5,000 Hz	4,000 Hz
Temperature Range		-100 to +400 °F (-73 to +204 °C)					
Typical Applications	Dynamic tension and compression, impact and repetitive applications, drop testing, materials testing						









MINIATURE CHARGE FORCE SENSOR						
Model Number	219A05					
Sensitivity (±15 %)	20 pC/lb					
Measurement Range (Compression)	560 lb					
Upper Frequency Limit	140,000 Hz					
Temperature Range	-300 to +400 °F (-184 to +204 °C)					
Typical Applications	Dynamic tension and compression, impact and repetitive applications, drop testing, and materials testing					



PENETRATION QUARTZ ICP® FOR	CE SENSORS			
Model Number	208A22	208A23	208A24	208A33
Sensitivity (±15 %)	50 mV/lb	5 mV/lb		
Measurement Range (Compression / Tension)	100 lb / -	1,000 lb / -	2,500 lb / -	1,000 lb / 500 lb
Low Frequency Response (-5 %)	0.003 Hz			
Upper Frequency Limit	18,000 Hz 20,000 Hz			20,000 Hz
Discharge Time Constant	≥200 sec	≥2,000 sec		







ISOLATED 3-COMPONENT ICP® FORCE RINGS				
Model Number	260B01	260B02	260B03	
Sensitivity (±20 %) (Z Axis) (X or Y Axis)	2.5 mV/lb 10 mV/lb		0.25 mV/lb 1.25 mV/lb	
Measurement Range (Z Axis) (X or Y Axis)	1,000 lb 1,000 lb 10,000 lb 500 lb 1,000 lb			
Low Frequency Response (-5 %) (Z-Axis) (X or Y Axis)	0.01 Hz 0.001 Hz			
Discharge Time Constant (Z Axis) (X or Y Axis)	≥50 sec ≥500 sec			
Electrical Isolation	≥100,000,000 Ohm			
Typical Applications	Force limited vibration testing, cutting tool forces, force dynamometer, engine mount analysis, biomechanics, and modal analysis			







ISOLATED 3-COMPONENT CHARGE FORCE RINGS						
Model Number	260B11	260B12	260B13			
Sensitivity (±20 %) (Z Axis) (X or Y Axis)		15 pC/lb 32 pC/lb				
Measurement Range (Z Axis) (X or Y Axis)	1,000 lb 500 lb	1,000 lb 1,000 lb	10,000 lb 4,000 lb			
Temperature Range		-100 to +350 °F (-73 to +177 °C)				
Electrical Isolation		≥100,000,000 Ohm				
Typical Applications		Chassis and other vehicle dynamic measurements, cutting tool forces and tool wear, force limited vibration testing, modal analysis, biomechanics, engine mount analysis, drop testing, and crash testing				







REVERSE POLARITY, ISOLATED 3-COMPONENT CHARGE FORCE RINGS					
Model Number	260B31	260B32	260B33		
Sensitivity (±20 %) (Z Axis) (X or Y Axis)	15 pC/lb 32 pC/lb				
Measurement Range (Z Axis) (X or Y Axis)	1,000 lb 500 lb	1,000 lb 1,000 lb	10,000 lb 4,000 lb		
Temperature Range	-100 to +350 °F (-73 to +177 °C)				
Electrical Isolation	≥100,000,000 0hm				
Typical Applications	Chassis and other vehicle dynamic measurements, cutting tool forces and tool wear, force limited vibration testing, modal analysis, biomechanics, engine mount analysis, drop testing, and crash testing				







ISOLATED 3-COMPONENT ICP® FORCE LINKS				
Model Number	(M)261B01	(M)261B02	(M)261B03	
Sensitivity (±20 %) (Z Axis)	2.5 mV/lb	2.5 mV/lb	0.25 mV/lb	
(X or Y Axis)	10 mV/lb	5 mV/lb	1.25 mV/lb	
Measurement Range (Z Axis)	1,000 lb	1,000 lb	10,000 lb	
(X or Y Axis)	500 lb	1,000 lb	4,000 lb	
Low Frequency Response (-5 %) (Z-Axis)	0.01 Hz			
(X or Y Axis)	0.001 Hz			
Discharge Time Constant (Z Axis)	≥50 sec			
(X or Y Axis)	≥500 sec			
Electrical Isolation	≥100,000,000 Ohm			
Typical Applications	Force limited vibration testing, cutting tool forces, force dynamometer, engine mount analysis, biomechanics, and modal analysis			







ISOLATED 3-COMPONENT CHARGE FORCE LINKS						
Model Number	(M)261B11	(M)261B12	(M)261B13			
Sensitivity (±20 %) (Z Axis) (X or Y Axis)		15 pC/lb 32 pC/lb				
Measurement Range (Z Axis) (X or Y Axis)	1,000 lb 500 lb	1,000 lb 1,000 lb	10,000 lb 4,000 lb			
Temperature Range		-100 to +350 °F (-73 to +177 °C)				
Electrical Isolation		≥100,000,000 0hm				
Typical Applications		Chassis and other vehicle dynamic measurements, cutting tool forces and tool wear, force limited vibration testing, modal analysis, biomechanics, engine mount analysis, drop testing, and crash testing				

SPECIAL PURPOSE INSTRUMENTATION



ICP® IMPEDANCE HEAD FORCE SENSOR				
Model Number	(TLD)288D01			
Sensitivity (Acceleration) (Force)	100 mV/g 100 mV/lb			
Measurement Range (Acceleration) (Force)	±50 g pk ±50 lbf pk			
Frequency Range (±5 %) (Acceleration)	1 to 5000 Hz			
Typical Applications	Structural testing and modal analysis. 2-channel sensor with 1 force output and 1 acceleration output for use with modal shakers in structural dynamics testing.			







ICP® STRAIN SENSORS						
Model Number	740B02	740M04	RHM240A01	RHM240A02	RHM240A03	RHM240M40
Sensitivity	50 mV/με	5 mV/με	100 mV/με	50 mV/με	10 mV/με	10 mV/με
Measurement Range	100 pk με	900 pk με	50 pk με	100 pk με	300 pk με	300 pk με
Frequency Range	0.5 to 100,000 Hz		0.015 Hz	0.004 Hz	0.004 Hz	0.004 Hz
Broadband Resolution	0.6 ηε	5.0 πε	0.0001 nε	0.0002 πε	0.001 πε	0.001 nε
Discharge Time Constant	1 to 3 sec		≥35 sec		≥150 sec	
Typical Applications	Automotive f	atigue testing	Proce	ss monitoring, press f and composite	orce control and mon material testing	itoring,

IMPACT / MODAL HAMMERS





ICP® MODAL HAMMERS						
Model Number	086E80	(TLD)086C01	(TLD)086C02	(TLD)086C03		
Sensitivity	100 mV/lbf	50 m	10 mV/lbf			
Measurement Range	50 lbf pk	±100	±500 lbf pk			
Resonant Frequency	≥100 kHz	≥15 kHz ≥22 kHz		≥15 kHz ≥22 kHz		≥22 kHz
Non-Linearity	≤1 %					
Discharge Time Constant	≥100 sec	≥500 sec ≥2,000 sec				
Typical Applications	Resonance detection, mode analysis, transfer characteristics, crack and fatigue detection					

Model Number	(TLD)086C04	(TLD)086D05	(TLD)086D20	(TLD)086D50
Sensitivity	5 mV/lbf		1 mV/lbf	
Measurement Range	1,000 lbf pk		5,000 lbf pk	
Resonant Frequency	≥22 kHz	≥22 kHz	≥12 kHz	≥5 kHz
Non-Linearity		≤1	%	1
Discharge Time Constant	≥2,000 sec		≥1,400 sec	≥2,000 sec
Typical Applications	Resonance	detection, mode analysis, transfe	er characteristics, crack and fatig	ue detection

ELECTRONICS









1-4 CHANNEL SIG	NAL CONDITI	ONERS						
Model Number	482C05	482C15	482C16	482C24	482C27	482C54/64	2775C	6634D
Channels		4						1
Power		DC powered through AC to DC converter (supplied)						
Sensor Types	ICP®	ICP®, voltage, charge	ICP®, voltage, bridge / charge			IEPE, Charge	Differential PE, PE, ICP®/IEPE, VELCOIL/RCC	
Typical Applications		Depending on model, these are compatible with charge output piezoelectric sensors, bridge/differential sensors, ICP® and IEPE, and any voltage input signal						





Model Number	483C05	483C15	483C28	483C50	483C41
Channels			8		,
Power			AC Pow	er	
Sensor Types	ICP®, voltage		ICP®, voltage, bridge / differential	ICP®, voltage	ICP®, voltage, charge
Features	Unity gain	Selectable gain x1, x10, x100, optional filters	Incremental gain x0.1 to x200, auto-zero, Ethernet, optional filters	Incremental gain x0.1 to x200, Ethernet, optional filters	Incremental gain x0.1 to x200, Ethernet, front-panel keypad, optiona filters



REMOTE CHARGE CONVERTERS							
Model Number	2771C-01	2771C-1	2771C-5	2771C-10	2771CM2-1		
Sensitivity	0.1 mV/pC	1 mV/pC	5 mV/pC	10 mV/pC	1 mV/pC		
Input Range	50,000 pCpk	5,000 pCpk	1,000 pCpk	500 pCpk	5,000 pCpk		
Frequency Range	0.4	Hz	2	3 Hz - 30 kHz			
Output Voltage Range	10 V pk-pk maximum						
Typical Applications	Transforms piezoelectric transducers' high impedance For extren charge output to a low impedance voltage proportional to the charge temperature so						



REMOTE CHARGE CONVERTERS								
Model Number	422E12	422E51	422E52	422E53	422E54	422E55		
Sensitivity (±2 %) (Charge Conversion)	10 mV/pC	100 mV/pC	10 mV/pC	1 mV/pC	0.1 mV/pC	0.5 mV/pC		
Input Range	±250 pC	±50 pC	±500 pC	±5,000 pC	±50,000 pC			
Frequency Range	5Hz - 100 kHz	5 Hz - 100 kHz	5Hz - 100 kHz	5 Hz - 50 kHz	5 Hz - 50 kHz	0.5 Hz - 100 kHz		
Output Voltage Range	±2.5 V	±5.0 V	±5.0 V	±5.0 V	±5.0 V	±5.0 V		
Typical Applications		Condition signals from charge output piezoelectric sensors converting them from high impedance charge signals into low impedance voltage signals						

	Special Specia			
Model Number	422E35	422E36	422E65/A	
Sensitivity (±2 %) (Charge Conversion)	1 mV/pC	10 mV/pC	0.5 mV/pC	
Input Range	±2,500 pC	±250 pC	±50 pC	
Frequency Range	5Hz - 100 kHz	5Hz - 100 kHz	5 Hz - 35 kHz	
Output Voltage Range	±2.5 V	±2.5 V	±5.0 V	
Typical Applications	For extreme temperature sensors		Radiation hardened for use in nuclear power generation	





DIFFERENTIAL REMOTE CHARGE CONVERTERS								
Model Number	422M182	2777A-02-10	2777A-02-15	2777A-10-10	2777A-10-15			
Sensitivity (±5 %) (Charge Conversion)	4 mV/pC	2 mV/pC		10 mV/pC				
Frequency Range	2 Hz - 55 kHz	10Hz - 10 kHz	15 Hz - 10 kHz	2 Hz - 55 kHz	15 Hz - 10 kHz			
Typical Applications		Converts differ	ential charge output sens	ors to a voltage				
Notes	Ideal for pressure measurement on gas turbine engines for power generation	Acceleration and velocity outputs, typically used for jet engine test stands						

ELECTRONICS







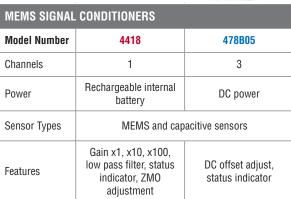




BATTERY OPERATED / DC POWERED IEPE SIGNAL CONDITIONERS								
Model Number	4416C	485B36	480C02	480E09	480B21			
Channels	1	2	1		3			
Power	Rechargeable internal battery	DC power						
Sensor Types	ICP®	ICP®	ICP®	ICP®	ICP®			
Features			Gain x1, x10, x100, status indicator	Gain x1, x10, x100, status indicator				
Typical Applications	Supplies power to IEPE/ICP® transducers from a constant current source							







Supplies power to MEMS and capacitive sensors





SENSOR SIMULATORS							
Model Number	401B04	4830B					
Power		Rechargeable internal battery					
Sensor Types	ICP®	Simulates ICP®, voltage, PE, and differential PE					
Features	Accepts test signals from a voltage function generator	Front keypad control, programmable profiles, tach output					
Typical Applications	Sensor simulator for signal conditioner testing						



HANDHELD SHAKER	
Model Number	394C06
Acceleration Output (±3 %)	1.00 g rms
Velocity Output	0.39 in/sec rms
Operating Frequency (±1 %)	159.2 Hz
Maximum Load	7.4 oz
Typical Applications	Verifies accelerometer and vibration system performance

Typical Applications



GENERAL PURPOSE COAX / TWISTED PAIR CABLES								
Model Number	018G10	002P10	018C10	3024	3024M1			
Sensor Connector	5-44 Plug	5-44 Plug	5-44 Plug	10-32 Plug	10-32 Plug			
DAQ Connector	10-32 Plug	BNC Plug	BNC Plug	Pigtails	Pigtails			
Jacket Material	PVC / Black	FEP / White	PVC / Black	TFE / Red & Black	FEP / White			
Temperature Range	-22 to 221 °F (-30 to 105 °C)	-85 to 329 °F (-65 to 165 °C)	-22 to 221 °F (-30 to 105 °C)	-300 to 350 °F (-184 to 176 °C)	-300 to 350 °F (-184 to 176 °C)			



Model Number	002A10	002C10	002B03	002T10	012A10	024R10
Sensor Connector	10-32 Plug	10-32 Plug	10-32 Plug	BNC Plug	BNC Plug	5/8-24 2-socket Plug
DAQ Connector	10-32 Plug	BNC Plug	BNC Jack	BNC Plug	BNC Plug	BNC Plug
Jacket Material	FEP / White	FEP / White	FEP / White	FEP / White	PVC / Black	Polyurethane / Black
Temperature Range	-130 to 400 °F (-90 to 204 °C)	-85 to 329 °F (-65 to 165 °C)	-85 to 329 °F (-65 to 165 °C)	-85 to 329 °F (-65 to 165 °C)	-40 to 176 °F (-40 to 80 °C)	-58 to 250 °F (-50 to 121 °C)



LOW NOISE COAX / TWISTED PAIR CABLES							
Model Number	3093M10	030A10	030C10	003G10	003P10	3091F	
Sensor Connector	1-64 Jack	3-56 Plug	3-56 Plug	5-44 Plug	5-44 Plug	6-40 Plug	
DAQ Connector	10-32 Jack	10-32 Plug	BNC Plug	10-32 Plug	BNC Plug	10-32 Plug	
Jacket Material	TFE / Red	FEP / Blue	FEP / Blue	TFE / Blue	TFE / Blue	TFE / Red	
Temperature Range	-425 to 350 °F (-254 to 177 °C)	-130 to 500 °F (-90 to 260 °C)	-85 to 329 °F (-65 to 165 °C)	-320 to 500 °F (-196 to 260 °C)	-85 to 329 °F (-65 to +165 °C)	-300 to 500 °F (-184 to 260 °C)	



LOW NOISE COAX / TWISTED PAIR CABLES (Continued)								
Model Number	030B10	003R10	3053V	3053VM1	3090СМ6	003A10		
Sensor Connector	M3 Plug	M3 Plug	M3 Plug	M3 Plug	10-32 Plug	10-32 Plug		
DAQ Connector	10-32 Plug	10-32 Plug	10-32 Plug	BNC Plug	Pigtail	10-32 Plug		
Jacket Material	FEP / Blue	TFE / Blue	PFA / Red	PFA / Red	PTFE / Red	TFE / Blue		
Temperature Range	-76 to 500 °F (-60 to 260 °C)	-76 to 500 °F (-60 to 260 °C)	-425 to 500 °F (-254 to 260 °C)	-67 to 392 °F (-55 to 200 °C)	-452 to 500 °F (-269 to 260 °C)	-320 to 500 °F (-196 to 260 °C)		



Model Number	3090C	3060D	3096	003C10	3090CM12	003B03
Sensor Connector	10-32 Plug	10-32 Plug	10-32 Plug, Hex	10-32 Plug	10-32 Plug	10-32 Plug
DAQ Connector	10-32 Plug	10-32 Plug	10-32 Plug, Hex	BNC Plug	BNC Plug	BNC Jack
Jacket Material	PTFE / Red	Silicone / Red	PTFE / Red	TFE / Blue	PTFE / Red	TFE / Blue
Temperature Range	-452 to 500 °F (-269 to 260 °C)	-425 to 500 °F (-254 to 260 °C)	-67 to 500 °F (-55 to 260 °C)	-85 to 329 °F (-65 to +165 °C)	-85 to 329 °F (-65 to 165 °C)	-85 to 329 °F (-65 to 165 °C)





HARDLINE CABLE			
Model Number	023A10		
Sensor Connector	10-32 Plug		
DAQ Connector	10-32 Jack		
Jacket Material	Stainless steel		
Temperature Range	-112 to 900 °F (-80 to 482 °C)		



4-CONDUCTOR, GENERAL PURPOSE CABLES				
Model Number	010F10	010G10	3027AM3*	010T10
Sensor Connector	1/4-28 4-socket Plug	1/4-28 4-socket Plug	1/4-28 4-socket Plug	1/4-28 4-socket Plug
DAQ Connector	(3) 10-32 Plug	(3) BNC Plug	(3) BNC Plug	(3) BNC Plug, grounded
Jacket Material	FEP / Blue	FEP / Blue	PVC / Black	FEP / Blue
Temperature Range	-67 to 230 °F (-55 to 110 °C)	-67 to 230 °F (-55 to 110 °C)	-67 to 185 °F (-55 to 85°C)	-67 to 230 °F (-55 to 110 °C)







Model Number	010810	010D10	3027AVMA14*
Sensor Connector	1/4-28 4-socket Plug	1/4-28 4-socket Plug	1/4-28 4-socket Plug, Hex
DAQ Connector	(3) BNC Plug	1/4-28 4-socket Plug	Pigtails
Jacket Material	FEP / Blue	FEP / Blue	PFA / Red
Temperature Range	-67 to 392 °F (-55 to 200 °C)	-76 to 325 °F (-60 to 162.7 °C)	-148 to 392 °F (-100 to 200 °C)

^{*}Only to be used with Endevco sensors







4-CONDUCTOR, FLEXIBLE CABLES			
Model Number	019B10	3027В	036G10
Sensor Connector	8-36 4-socket Plug	1/4-28 4-socket Plug	1/4-28 4-socket Plug
DAQ Connector	(3) BNC Plug	Pigtails	(3) BNC Plug
Jacket Material	Silicone / Blue	Silicone / White	Silicone / Blue
Temperature Range	-65 to 230 °F (-54 to 110 °C)	-148 to 257 °F (-100 to 125 °C)	-67 to 230 °F (-55 to 110 °C)





IP68 RATED CABLES			
Model Number	078Wxx	034Wxx	
Sensor Connector	IP68 1/4-28 4-socket plug	IP68 1/4-28 4-socket plug	
DAQ Connector	(3) BNC Plug	(3) BNC Plug	
Jacket Material	Polyurethane / Blue	FEP / Blue	
Temperature Range	-58 to +185 °F (-50 to +85 °C)	-67 to +230 °F (-55 to +110 °C)	







4-CONDUCTOR, LOW NOISE CABLES				
Model Number	034H10	034K10	034F10	
Sensor Connector	8-36 4-socket Plug	8-36 4-socket Plug	1/4-28 4-socket Plug	
DAQ Connector	(3) 10-32 Plug	(3) BNC Plug	(3) 10-32 Plug	
Jacket Material	FEP / Blue	FEP / Blue	FEP / Blue	
Temperature Range	-65 to 230 °F (-54 to 110 °C)	-65 to 230 °F (-54 to 110 °C)	-67 to 230 °F (-55 to 110 °C)	







Model Number	034G10	034T10	078G10
Sensor Connector	1/4-28 4-socket Plug	1/4-28 4-socket Plug	1/4-28 4-socket plug
DAQ Connector	(3) BNC Plug	(3) BNC Plug, Grounded	(3) BNC Plug
Jacket Material	FEP / Blue	FEP / Blue	Polyurethane / Blue
Temperature Range	-67 to 230 °F (-55 to 110 °C)	-67 to 230 °F (-55 to 110 °C)	-58 to 185 °F (-50 to 85 °C)





4-CONDUCTOR, LOW NOISE, FLEXIBLE CABLE				
Model Number 3915				
Sensor Connector 1/4-28 4-socket Plug				
DAQ Connector Pigtails				
Jacket Material Silicone / White				
Temperature Range -76 to 250 °F (-60 to 121 °C)				

4-CONDUCTOR, IP68 RATED CABLES			
Model Number	034W10	078W10	
Sensor Connector	1/4-28 4-socket Plug, IP68	1/4-28 4-socket Plug, IP68	
DAQ Connector	(3) BNC Plug	(3) BNC Plug	
Jacket Material	FEP / Blue	Polyurethane / Blue	
Temperature Range	-67 to 230 °F (-55 to 110 °C)	-58 to 185 °F (-50 to 85 °C)	







VC MEMS CABLES				
Model Number	010P10	037P10	037G10	037A10
Sensor Connector	1/4-28 4-socket Plug	5/16-24 9-socket Plug	5/16-24 9-socket Plug	5/16-24 9-socket Plug
DAQ Connector	Pigtails for 3711	Pigtails for 3713	Pigtails for 3743	(3) 1/4-28 4-socket Plug
Jacket Material	FEP / Blue	Polyurethane / Black	Polyurethane / Black	Polyurethane / Black
Temperature Range	-76 to 325 °F (-60 to 163 °C)	-31 to 250 °F (-35 to 121 °C)	-31 to 250 °F (-35 to 121 °C)	-31 to 250 °F (-35 to 121 °C)















MODEL AD Pigtail MODEL EK 3-56 Coaxial MODEL AG 5-44 Coaxial MODEL EB 10-32 Coaxial MODEL AC BNC Coaxial MODEL ET 7/16-27 2-socket MODEL AM 7/16-27 2-socket

Model Number	Connector Style	Connection Type	Coupling Method	Temperature Range
AD	Pigtail	N/A	N/A	N/A
BZ	Blunt Cut	N/A	N/A	N/A
EK	3-56 Coaxial	Jack (female socket)	Threaded	-130 to 500 °F (-90 to 260 °C)
AG	5-44 Coaxial	Plug (female contact)	Threaded	-320 to 500 °F (-196 to 260 °C)
AF	5-44 Coaxial, Right Angle	Plug (male pin)	Threaded	-85 to 392 °F (-65 to 200 °C)
CX	5-44 Coaxial	Jack (female socket)	Threaded	-320 to 500 °F (-196 to 260 °C)
EP	M3 Coaxial	Plug (male pin)	Threaded	-76 to 500 °F (-60 to 260 °C)
EB	10-32 Coaxial	Plug (male pin)	Threaded	-320 to 500 °F (-196 to 260 °C)
DM	10-32 Coaxial	Plug (male pin)	Threaded	-65 to 550 °F (-54 to 288 °C)
FZ	10-32 Coaxial	Plug (male pin)	Threaded	-112 to 900 °F (-80 to 482 °C)
RP	10-32 Coaxial	Plug (male pin)	Threaded	-112 to 1,000 °F (-80 to 538 °C)
 EJ	10-32 Coaxial, Spring Loaded	Plug (male pin)	Threaded	-320 to 500 °F (-196 to 260 °C)
AH	10-32 Coaxial, Hex	Plug (male pin)	Threaded	-76 to 450 °F (-60 to 232 °C)
AK	10-32 Coaxial, Right Angle	Plug (male pin)	Threaded	-85 to 329 °F (-65 to +165 °C)
QX	10-32 Coaxial, Stainless Steel	Plug (male pin)	Threaded	-320 to 500 °F (-196 to 260 °C)
AW	10-32 Coaxial, Solder	Plug (male pin)	Threaded	-67 to 500 °F (-55 to 260 °C)
PH	10-32 Coaxial	Jack (female socket)	Threaded	-320 to +500 °F (-196 to +260 °C)
GA	10-32 Coaxial	Jack (female socket)	Threaded	-65 to 550 °F (-54 to 288 °C)
CC	10-32 Coaxial	Jack (female socket)	Threaded	-65 to 550 °F (-54 to 288 °C)
JE	1/4-36 SMA Coaxial	Plug (male pin)	Threaded	-40 to 329 °F (-40 to 165 °C)
FW	SMB Coaxial	Plug (female socket)	Push On	-85 to 329 °F (-65 to 165 °C)
FX	SMB Coaxial	Jack (male pin)	Push On	-85 to 329 °F (-65 to 165 °C)
HR	SMB Coaxial, Right Angle	Jack (female socket)	Push On	-67 to 275 °F (-55 to 135 °C)
AC	BNC Coaxial	Plug (male pin)	Bayonet	-85 to 329 °F (-65 to +165 °C)
AB	BNC Coaxial	Jack (female socket)	Bayonet	-85 to 329 °F (-65 to +165 °C)
AT	TNC Coaxial	Plug (male pin)	Threaded	-85 to 329 °F (-65 to 165 °C)
AU	TNC Coaxial	Jack (female socket)	Threaded	-85 to 329 °F (-65 to 165 °C)
ET	7/16-27 UNS-2B 2-socket	Plug (female socket)	Threaded	-76 to 400 °F (-60 to 204 °C)
QY	7/16-27 UNS-2B 2-socket	Plug (female socket)	Threaded	-320 to 500 °F (-196 to 260 °C)
GN	7/16-27 UNS-2B 2-socket	Plug (female socket)	Threaded	-65 to 900 °F (-54 to 482 °C)
GP	7/16-27 UNS-2A 2-pin	Jack (male pin)	Threaded	-65 to 900 °F (-54 to 482 °C)
AE	MIL-C-5015 2-socket	Jack (female socket)	Push On	-67 to 325 °F (-55 to 163 °C)
AM	MIL-C-5015 5/8-24 2-socket	Jack (female socket)	Threaded	-67 to 257 °F (-55 to 125 °C)
AP	MIL-C-5015 5/8-24 2-socket	Plug (female socket)	Threaded	-320 to +257 °F (-196 to +125 °C
BP	MIL-C-5015 5/8-24 2-socket	Plug (female socket)	Threaded	-320 to +325 °F (-196 to +163 °C)
BR	MIL-C-5015 5/8-24 2-socket	Plug (female socket)	Threaded	-320 to +250 °F (-196 to +121 °C
BQ	MIL-C-5015 5/8-24 2-socket, Right Angle	Plug (female socket)	Threaded	-320 to +250 °F (-196 to +121 °C
CE	MIL-C-5015 5/8-24 2-pin	Jack (male pin)	Threaded	-67 to +257 °F (-55 to +125 °C)















MODEL EH 8-36 4-socket

MODEL AY 1/4-28 4-socket

MODEL JY 10-32 Triple Splice

MODEL JW BNC Triple Slice

MODEL EN 5/16-24 9-Socket

MODEL PG Pigtail/BNC for 3713

MODEL LN 8-pin

4-CONDUCTOR CONNECTORS / TERMINATION				
Model Number	Connector Style	Connection Type	Coupling Method	Temperature Range
EH	8-36 4-socket	Plug (female socket)	Threaded	-65 to 356 °F (-54 to 180 °C)
HJ	8-36 4-pin	Jack (male pin)	Threaded	-76 to 325 °F (-60 to 163 °C)
AY	1/4-28 4-socket	Plug (female socket)	Threaded	-76 to 325 °F (-60 to 163 °C)
RB	1/4-28 4-socket, IP68	Plug (female socket)	Threaded	-76 to 325 °F (-60 to 163 °C)
RJ	1/4-28 4-socket, 200C	Plug (female socket)	Threaded	-76 to 392 °F (-60 to 200 °C)
QN	1/4-28 4-socket, Hex	Plug (female socket)	Threaded	-76 to 325 °F (-60 to 163 °C)
CA	1/4-28 4-pin	Jack (male pin)	Threaded	-76 to 325 °F (-60 to 163 °C)
JR	Pigtail Triple Splice	Pigtail	N/A	-76 to 325 °F (-60 to 163 °C)
GR	Blunt Cut Triple Splice	Blunt Cut	N/A	-76 to 325 °F (-60 to 163 °C)
JY	10-32 Triple Splice	Plug (male pin)	Threaded	-67 to 230 °F (-55 to 110 °C)
JZ	10-32 Triple Splice	Jack (female socket)	Threaded	-15 to 400 °F (-26 to 204 °C)
LA	10-32 Triple Splice, Spring Loaded	Plug (male pin)	Threaded	-67 to 230 °F (-55 to 110 °C)
NV	10-32 Triple Splice, Grounded	Plug (male pin)	Threaded	-67 to 230 °F (-55 to 110 °C)
LK	SMA Triple Splice	Plug (male pin)	Threaded	-67 to 230 °F (-55 to 110 °C)
LC	SMB Triple Splice	Plug (female socket)	Push On	-67 to 230 °F (-55 to 110 °C)
LD	SMB Triple Splice	Jack (male pin)	Push On	-67 to 230 °F (-55 to 110 °C)
JW	BNC Triple Splice	Plug (male pin)	Bayonet	-67 to 230 °F (-55 to 110 °C)
JX	BNC Triple Splice	Jack (female socket)	Bayonet	-67 to 230 °F (-55 to 110 °C)
NF	BNC Triple Splice, Grounded	Plug (male pin)	Bayonet	-40 to +176 °F (-40 to +80 °C)
JS	1/4-28 4-socket Triple Splice	Plug (female socket)	Threaded	-58 to 221 °F (-50 to 105 °C)

VC MEMS CONNE	CTORS / TERMINATION			
Model Number	Connector Style	Connection Type	Coupling Method	Temperature Range
DZ	Pigtail for 3711/3713	N/A	N/A	N/A
PG	Pigtail/BNC for 3713	Plug (male pin)	Bayonet	-67 to +230 °F (-55 to +110 °C)
SL	Pigtail/BNC for 3713	Plug (male pin)	Bayonet	-67 to +230 °F (-55 to +110 °C)
JJ	Pigtail for 3501, 3741, 3991	N/A	N/A	N/A
NU	Pigtail for 3743	N/A	N/A	N/A
EN	5/16-24 9-socket	Plug (female socket)	Threaded	-31 to 275 °F (-35 to 135 °C)
GJ	5/16-24 9-pin	Jack (male pin)	Threaded	-31 to 275 °F (-35 to 135 °C)
LN	8-pin	mini DIN	Snap-on	-13 to +176 °F (-25 to +80 °C)
LY	8-pin Triple Splice	mini DIN	Snap-on	-13 to +176 °F (-25 to +80 °C)
LT	8-pin for 3711	mini DIN	Snap-on	-13 to +176 °F (-25 to +80 °C)
NN	8-pin Triple Splice for 3713	mini DIN	Snap-on	-13 to +176 °F (-25 to +80 °C)







MODEL 005 General Purpose Coax



MODEL 024 General Purpose Twisted Pair



MODEL 003 Low Noise Coax

RAW CABLE – GENERAL PURPOSE – COAX						
Model Number	Conductor Size	Cable Diameter	Jacket Material / Color	Temperature Range		
002	30 awg (7/38)	0.075 in	FEP / White	-130 to +400 °F (-90 to +204 °C)		
005	30 awg (7/38)	0.200 in	FEP / Clear	-67 to +275 °F (-55 to +135 °C)		
018	28 awg	0.054 in	PVC / Black	-22 to +221 °F (-30 to +105 °C)		
012	20 awg	0.193 in	PVC / Black	-40 to +176 °F (-40 to +80 °C)		

RAW CABLE – GENERAL PURPOSE – TWISTED PAIR						
Model Number	Conductor Size	Cable Diameter	Jacket Material / Color	Temperature Range		
035	36 awg (7/44)	0.024 in	PTFE / Red & Black	-67 to 392 °F (-55 to +200 °C)		
031	30 awg (7/38)	0.024 in	PTFE / Red & Black	-67 to +392 °F (-55 to +200 °C)		
032	30 awg (7/38)	0.085 in	FEP / Clear	-130 to +392 °F (-90 to +200 °C)		
024	20 awg (19/32)	0.250 in	Polyurethane / Black	-58 to +250 °F (-50 to +121 °C)		
053	18 awg (19/30)	0.154 in	PTFE / Red	-320 to +392 °F (-196 to +200 °C)		

RAW CABLE – L	RAW CABLE – LOW NOISE – COAX						
Model Number Conductor Size		Cable Diameter	Jacket Material / Color	Temperature Range			
030	34 awg (7/42)	0.042 in	FEP / Blue	-130 to +500 °F (-90 to +260 °C)			
098	30 awg (7/38)	0.079 in	TFE / Green	-130 to +500 °F (-90 to +260 °C)			
003	29 awg	0.079 in	TFE / Blue	-320 to +500 °F (-196 to +260 °C)			
006	29 awg	0.20 in	TFE / Clear	-67 to +275 °F (-55 to +135 °C)			
038	29 awg	0.079 in	Polyurethane / Blue	-58 to +250 °F (-50 to +121 °C)			

RAW CABLE – LOW NOISE – TWISTED PAIR					
Model Number Conductor Size Cable Diameter Jacket Material / Color Temperature Ra					
045	22 awg (7/30)	0.204 in	PTFE / Red	-130 to +500 °F (-90 to +260 °C)	

RAW CABLE – ARMORED – TWISTED PAIR						
Model Number	Conductor Size	Cable Diameter	Jacket Material / Color	Temperature Range		
048	18 awg (19/30)	0.268 in	Polyurethane / Red	-320 to +392 °F (-196 to +200 °C)		













MODEL 023 Hardline Coax

MODEL 010 General Purpose 4-conductor

MODEL 019 Flexible 4-conductor

MODEL 030 Raw Cable

MODEL 034 Low Noise 4-conductor

MODEL 037 Multi-conductor

RAW CABLE – HARDLINE – COAX						
Model Number	Temperature Range					
023	30 awg	0.059 in	Stainless Steel	-300 to +1200 °F (-184 to +650 °C)		
013	26 awg	0.125 in	Stainless Steel	-94 to 1400 °F (-70 to 760 °C)		
029	20 awg	0.125 in	Stainless Steel	-67 to +1500 °F (-55 to +816 °C)		

RAW CABLE – GENERAL PURPOSE – 4-CONDUCTOR						
Model Number Conductor Size Cable Diameter Jacket Material / Color Temperature						
068	32 awg (7/40)	0.063 in	FEP / Green	-130 to 392 °F (-90 to 200 °C)		
010	30 awg (7/38)	0.1 in	FEP / Blue	-130 to +392 °F (-90 to +200 °C)		

RAW CABLE – LOW NOISE – 4-CONDUCTOR						
Model Number	Temperature Range					
034	34 awg	0.077 in	FEP / Blue	-130 to +392 °F (-90 to +200 °C)		
078	34 awg	0.119 in	Polyurethane / Blue	-58 to +185 °F (-50 to +85 °C)		

RAW CABLE – FLEXIBLE – 4-CONDUCTOR						
Model Number	Conductor Size	Cable Diameter	Jacket Material / Color	Temperature Range		
019	36 awg	0.07 in	Silicone / Blue	-76 to +500 °F (-60 to +260 °C)		
036	32 awg (7/40)	0.100 in	Silicone / Blue	-76 to +392 °F (-60 to +200 °C)		

RAW CABLE – MULTI-CONDUCTOR					
Model Number	Temperature Range				
037	(10) 28 awg (40/44)	0.154 in	Polyurethane / Black	-58 to +250 °F (-50 to +121 °C)	

NOT SEEING THE CABLE YOU NEED?

Contact us! We offer a wide range of additional options, including different cable types and connectors, for both the sensor and DAQ sides. Our team would be happy to recommend a cable tailored to your specific application.













ADAPTERS							
Model Number	070A54	070A03	070A02	070A08	070A95	070B09	
Connector A	M4 Jack	10-32 Plug	10-32 Jack	10-32 Jack	SMA Plug	10-32 Plug	
Connector B	BNC Plug	BNC Jack	BNC Plug	BNC Jack	BNC Jack	Solder Terminal	









COUPLERS						
Model Number	070A05	070A20	070A43	070A12		
Connector A	10-32 Jack	10-32 Plug, Right Angle	BNC Jack, Right Angle	BNC Jack		
Connector B	10-32 Jack	10-32 Jack	BNC Plug	BNC Jack		





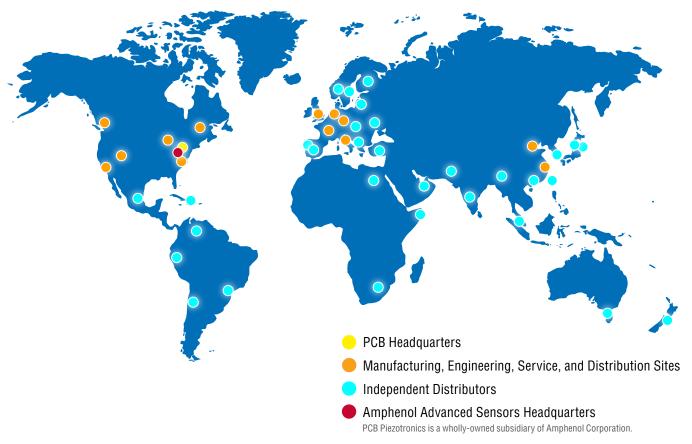


FEED THRU ADAPTERS				
Model Number	EJ66	070A13	080M233	
Connector A	10-32 Jack	BNC Jack	1/4-28 4-pin Jack	
Connector B	10-32 Jack	10-32 Jack	1/4-28 4-pin Jack	



T CONNECTOR				
Model Number	070A11			
Connector A	BNC Plug			
Connector B	BNC Jack			
Connector C	BNC Jack			

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